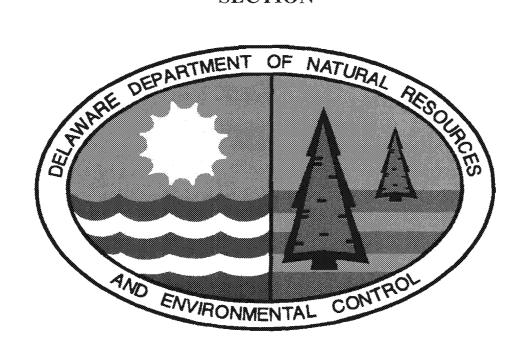
SITE INSPECTION OF PROCINO PLATING

DNREC SITE INVESTIGATION AND RESTORATION SECTION



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EXECUTIVE SUMMARY

The Delaware Department of Natural Resources and Environmental Control, Site Investigation and Restoration Section (DNREC-SIRS), in cooperation with the United States Environmental Protection Agency (EPA), has conducted a Site Inspection (SI) at the Procino Plating facility (Site) located in Blades, Delaware.

The SI is intended to evaluate the extent to which a site presents a threat to human health or the environment by collecting and analyzing environmental media samples to determine whether hazardous substances are present and are migrating to the surrounding environment. The SI is not intended to be a detailed extent-of-contamination assessment or risk assessment. Therefore, information presented in this report for the Procino Plating facility should not be used as a means of contaminant delineation or as an indicator of source determination. This can only be characterized through further investigation.

Procino Plating is located at 901 South Market Street in Blades, Delaware. The site is approximately 1.16 acres in size, is comprised of two tax parcels (132-1.15-187.00 and 132-1.15-188.00), and is located at the intersection of South Market Street and 9th Street. The land use surrounding the Site is primarily residential.

The Site has been operational as a metal plating operation since the 1980's. Soil and groundwater data generated through this assessment was evaluated by DNREC-SIRS from an industrial use, residential use and drinking water use standpoint since the Site is surrounded by residential properties, and because area residents hydraulically downgradient of the Site utilize groundwater for drinking water purposes.

Iron was detected in soil samples PPMW-03D, PPSB-01D and PPSB-04D at concentrations exceeding its DNREC Uniform Risk-Based Remediation Standard (URS) in a Critical Water Resource Area for Unrestricted Use. Concentrations did not exceed the DNREC URS in a Critical Water Resource Area for Restricted Use, or the EPA Regional Screening Levels (RSLs) for Residential or Industrial use. Other metals were not detected at concentrations in excess of applicable standards.

Volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides and polychlorinated biphenyls (PCBs) were not detected in the shallow or deep soil samples selected for confirmatory analysis at concentrations in excess of regulatory standards.

Chloroform was detected in the groundwater sample collected from site monitoring well PPMW-06 at an estimated concentration of 0.9 micrograms per liter (ug/l). The DNREC Groundwater URS for chloroform is 0.1 ug/l. The concentration is below the EPA RSL for Tapwater and the EPA Maximum Contaminant Level (MCL). Chloroform is also a common laboratory artifact. Other VOCs were not detected at concentrations in excess of regulatory standards.

SVOCs were not detected in groundwater samples collected from the Site monitoring wells at concentrations in excess of regulatory standards.

Dieldrin was detected in the groundwater sample collected from monitoring wells PPMW-03, PPMW-05 and the PPMW-01duplicate sample at concentrations exceeding its EPA RSL for Tapwater and the DNREC Groundwater URS. An EPA MCL does not exist for Dieldrin. Heptachlor epoxide was detected in the groundwater sample collected from monitoring well PPMW-03 at a concentration exceeding its EPA RSL for Tapwater and the DNREC Groundwater URS, but below its EPA MCL. PCBs were not detected in the groundwater samples collected from Site monitoring wells.

Aluminum was detected in the total metals sample collected from monitoring well PPMW-01 and the PPMW-01 duplicate sample at a concentration exceeding its DNREC groundwater URS, but below its EPA RSL for Tapwater. An EPA MCL does not exist for aluminum. Aluminum was not detected in the dissolved metals sample from the same well or the duplicate. Nickel was detected in the total and dissolved metals sample collected from monitoring well PPMW-06 at a concentration exceeding its DNREC Groundwater URS, but below its EPA RSL for Tapwater. An EPA MCL does not exist for nickel. Chromium was detected in the total and dissolved groundwater sample collected from monitoring well PPMW-06 at a concentration in excess of its DNREC Groundwater URS and its EPA MCL. Cyanide was not detected in any of the groundwater samples collected from Site monitoring wells.

Barium was detected in six of the private water supply well samples collected in May 2010 and April 2011 at concentrations exceeding its DNREC Groundwater URS, but below its EPA RSL for Tapwater and its EPA MCL. Manganese was detected in 11 of the private water supply well samples collected in May 2010 and April 2011 at concentrations in excess of its DNREC Groundwater URS and its EPA Secondary MCL, but below its EPA RSL for Tapwater. Zinc was detected in the sample collected from one private water supply well in May 2010 at a concentration exceeding is DNREC Groundwater URS and its EPA Secondary MCL, but below its EPA RSL for Tapwater. The same supply well was sampled again in April 2011, and although present, the concentration of zinc was below all applicable standards.

Cyanide was detected in one drinking water sample collected in April 2011. Although the concentration was low (0.02 mg/l, or 20 ug/l), it merits mentioning due to the uncommon nature of the detection. Review of the data and chromatograms by the DNREC-SIRS Senior Chemist indicated that the detected concentration was not an artifact of the laboratory analysis, and that the cyanide was present in the sample. The water supply well that the sample was collected from is screened at a depth of 43 to 48 feet below ground surface.

Surface water, sediment and air samples were not collected as part of this SI.

RECOMMENDATIONS

DNREC-SIRS recommends additional assessment at the Site in the form of a remedial investigation (RI) to further evaluate the horizontal and vertical extent of chromium detected in the groundwater from monitoring well PPMW-06 at concentrations exceeding EPA MCLs. In addition, the presence of pesticides in monitoring wells PPMW-01, PPMW-03 and PPMS-05 should be evaluated further since concentrations exceed DNREC and EPA screening levels. Because only shallow groundwater quality was evaluated through the SI, deeper groundwater quality needs to be evaluated for its potential impact to private water supply wells hydraulically downgradient of the Site, specifically from cyanide, and also for its potential impact to sediments in the Nanticoke River due to groundwater discharge.

The recommended RI can be conducted through the DNREC-SIRS Voluntary Cleanup Program (VCP).

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1. INTRODUCTION

The Delaware Department of Natural Resources and Environmental Control, Site Investigation and Restoration Section (DNREC-SIRS), in cooperation with the United States Environmental Protection Agency (EPA), has developed this Site Inspection (SI) report for the Procino Plating facility (Site), located in Blades, Sussex County, Delaware (Figure 1).

The purpose of this SI was to investigate the possible existence of released hazardous substances at the Site through the collection and analysis of environmental samples. The analytical data generated from the collection and laboratory analysis of the environmental samples has been subsequently evaluated to determine the potential for human and environmental exposures to hazardous substances.

The objective of this assessment was not to define the full extent of site contamination or to conduct a risk assessment. Instead, DNREC-SIRS has prepared this SI report along with the evaluation of data to determine whether the Site should undergo further investigation or obtain a "No Further Action" (NFA) designation under the Federal Superfund and/or DNREC-SIRS Programs.

2. BACKGROUND INFORMATION

2.1. SITE LOCATION AND DESCRIPTION

Procino Plating is located at 901 South Market Street in Blades, Sussex County, Delaware. A site features map is shown as Figure 2. The Site is approximately 1.16 acres in size, is comprised of two tax parcels (132-1.15-187.00 and 132-1.15-188.00), and is located on the corner of South Market Street and West 9th Street. The central coordinates for the Site is latitude 38° 37'48" by longitude 75° 36'34". The elevation of the Site is an average of 10-20 feet above mean sea level with flat topography (Figure 3). Water and sewer service is supplied to the Site by the Town of Blades. According to the property owner, the Site is currently an active plating facility, although the extent of plating operations has been reduced to hard chrome plating for griddle tops, and minor aluminum etching.

The Site is surrounded by residential properties to the north, south and east. Rail-road tracks are located adjacent to the site towards the west, with a residential community located on the opposite side of the rail-road tracks.

According to the National Weather Service Data, the average yearly temperature in this area is 56 degrees Fahrenheit. In general, the month with the lowest average temperature is January, with average temperatures in the mid 30's. July has the highest average temperature, with averages in the mid 70's. The average annual precipitation is approximately 47 inches.

2.2. HISTORICAL SITE USES AND LAYOUT

No Sanborn Fire Insurance Maps were available for review of the Site area. However, DNREC-SIRS reviewed aerial photographs for the years 1937, 1954, 1961, 1968, 1992, 1997, 2002, and 2007 (Figures 4 - 11). The following is a chronological summary based on the review of the aerial photographs.

The aerial photograph is of poor quality. The Site appears to be an undeveloped agricultural field. The surrounding parcels also appear to be agricultural fields (Figure 4).

- The Site appears to have one building located on the eastern portion of the property (Figure 5). It also appears that the surrounding properties have not been developed. However, several surrounding properties look like they have been cleared and sited for potential development. The Town of Blades appears to be developing and expanding.
- The aerial photo is of poor quality. The Site appears to be unchanged, with the one building in the eastern portion of the property. The surrounding properties appear to have been developed into residential properties (Figure 6).
- The aerial photograph is of poor quality. The Site and adjacent properties appear unchanged. The Town of Blades, however, has expanded (Figure 7).
- The aerial photograph shows considerable change to the Town of Blades, but the Site appears unchanged when compared to the 1968 aerial photo (Figure 8).
- The Site appears to have two additional buildings on the western portion of the property (Figure 9). The surrounding properties appear unchanged from the 1992 aerial photograph.
- A shed like structure appears to have been added onto the south side of the western Site buildings (Figure 10). Surrounding properties appear unchanged.
- The aerial photograph is concentrated on the Site. The Site and surrounding properties appear to be unchanged from the 2002 aerial photograph (Figure 11).

The current property owners purchased the two parcels in May and July of 1996. Additional ownership information can be found in Appendix A. The Site has been operational as a metal plating operation since the 1980's. Past use of the Site prior to a plating operation was not obtained by DNREC-SIRS.

3. DNREC - ASSESSMENT RATIONALE AND SITE VISIT SUMMARY

In response to information obtained from the DNREC-Solid and Hazardous Waste Management Section (SHWMS) regarding improper handling of hazardous waste at the site, an area reconnaissance was conducted on May 19, 2010 with the Delaware Division of Public Health (DPH) Office of Drinking Water (ODW). The ODW was asked to accompany DNREC-SIRS to the area to sample any registered/permitted private water supply wells within the Town of Blades limits to determine if any chemicals were present that could possibly have originated from the Procino Plating facility. On the same day, SIRS personnel accompanied ODW staff during the collection of compliance samples from the two Town of Blades water supply wells. Only a few of the registered private water supply wells were found by DNREC-SIRS, each of which appeared to be out of service. As a check, water from an outdoor spigot from each of the residences where private water supply wells were registered was tested for the presence of chlorine, which would indicate that the water was being supplied by the Town of Blades. Each home that was tested by ODW was confirmed for the presence of chlorine. During the compliance sampling of the Town's water supply wells, the facility's Operator told DNREC and ODW that the community west of the Procino Plating facility and across the railroad tracks were all served by private water supply wells, because the community is located outside the municipal limits of the Town. SIRS and ODW personnel investigated the area and obtained permission to collect drinking water samples from 4 (four) residences. Detailed results of the sampling are discussed below. However, zinc was detected in one of the water supply wells at a concentration in excess of its EPA Secondary Maximum Contaminant Level (MCL).

Based upon the information obtained in May 2010, DNREC-SIRS decided to utilize EPA Preliminary Assessment/Site Inspection (PA/SI) funding to investigate the Site. The PA was completed and submitted to EPA in October 2010. As indicated in the PA, DNREC-SIRS personnel accompanied representatives from the DNREC-Solid and Hazardous Waste Management Section (SHWMS) on a site visit on September 14, 2010. During that visit, information was provided by Mr. Patrick Procino to SIRS staff regarding the past and current plating operations at the facility. A summary of that visit can be obtained from the PA for the Site. Results of the PA indicated that operations at the Site had the potential to impact soil and groundwater, and a SI was recommended.

During the planning stages for the SI, DNREC-SIRS and ODW personnel again visited the community located to the west of the Procino Plating facility to collect additional private water supply well samples. A total of 12 private water supply wells were sampled on April 28, 2011.

DNREC-SIRS personnel mobilized to the Site to perform soil sampling and monitoring well installation associated with the SI on May 24, 25 and 26, 2011. Thirteen (13) soil borings and six (6) monitoring wells were installed. The monitoring wells were sampled on June 16 and 17, 2011.

4. METHODOLOGIES

4.1. SAMPLING

DNREC sampled both shallow and deep soil from each soil boring/monitoring well location during this SI. In total, DNREC collected twenty-six (26) soil samples from thirteen (13) sample locations. DNREC also installed six (6) groundwater monitoring wells using a Geoprobe® rig, and collected one groundwater sample from each well. Soil boring and monitoring well locations are shown on Figure 12. Quality control samples were also collected for both soil and groundwater. All soil samples were screened in the DNREC-SIRS laboratory prior to determining which samples would be submitted to a fixed laboratory for confirmatory analysis. Groundwater samples were not screened at the DNREC-SIRS laboratory, but were submitted directly to a fixed laboratory.

Field sampling and sample handling adhered to the procedures as specified in the State of Delaware Site Inspection Quality Assurance Project Plan (QAPP). A copy of the QAPP is available for review at the office of the Department of Natural Resources and Environmental Control, 391 Lukens Drive, New Castle, Delaware, 19720.

In addition to the samples mentioned above, a total of sixteen (16) private water supply well samples from thirteen (13) locations were collected during the SI in cooperation with Delaware's ODW. All of the samples were submitted directly to a fixed laboratory for confirmatory analysis.

4.1.1.SOILS

DNREC collected twenty-six (26) soil samples and appropriate QA/QC samples from thirteen (13) sample locations during this SI using a Geoprobe® rig and direct push sampling techniques. Soil borings were installed on May 24, 25 and 26, 2011.

Soil samples were collected in 5-foot acetate sleeves (cores), continuously, until the top of the water table was reached. Each acetate sleeve was removed from the macrocore sampler and split lengthwise to reveal the soil section. After each acetate sleeve was split, the core was screened with a Photovac® portable photo ionization detector (PID) and then logged by a DNREC-SIRS Hydrologist. No measurements above background readings (zero) were recorded for soil at the

Site. Composited shallow soil samples were collected from the top twenty-four (24) inches of the first core in each borehole. A composited deep sample was collected, generally, from the twenty-four (24) inches immediately above the water table. The shallow and deep samples collected for volatile organic compound (VOC) analysis were collected from the split acetate sleeve using a 10 milliliter (ml) syringe, and placed into a 40 ml VOA vial containing approximately 25 ml of methanol. The remaining soil was homogenized with disposable plastic scoops in a disposable food-grade aluminum pan and put into sterilized 8-ounce wide mouth glass jars for semivolatile organic compound (SVOC), pesticide/polychlorinated biphenyl (PCB), metals and cyanide analysis. The jars were appropriately labeled, placed in zip-lock bags, and stored in coolers with ice for transportation. The bore holes were subsequently backfilled with the remaining excavated material and sealed with bentonite as needed. Soil sample locations are shown on Figure 12. Soil boring logs are included as Appendix B.

4.1.2.GROUNDWATER

DNREC installed six (6) groundwater monitoring wells on May 24 and 25, 2011 to assess the groundwater quality beneath the Site. Monitoring wells were constructed using 1-inch diameter polyvinylchloride (PVC) well casing and 10 feet of 1-inch diameter, 0.010 inch slot size, PVC pre-packed well screen. A pre-packed bentonite seal was used to seal the well screen from the surface. All of the monitoring wells were finished at grade using flush-mounted steel manways set into an approximate 16 inch square concrete pad. The monitoring wells were installed by a Delaware licensed well driller in accordance with the Delaware Regulations Governing the Construction and Use of Wells, April 6, 1997. All drilling activities were supervised by a DNREC-SIRS Hydrologist. Monitoring well locations are shown on Figure 12.

The monitoring wells were developed by pumping with a peristaltic pump and disposable tubing. The wells were surged several times during development with the well development tubing. Stabilization parameters of pH, temperature, specific conductance, dissolved oxygen and turbidity (visual) were noted at regular intervals during well development. Once the water was relatively free of suspended material, and all stabilization parameters were within approximately 10% of the previous reading, well development was discontinued. Well development logs are included in Appendix C.

On June 16 and 17, 2011, DNREC collected six (6) groundwater samples and appropriate QA/QC samples from the groundwater monitoring wells. Groundwater was collected from the wells using a peristaltic pump and disposable tubing. Each well was purged using low flow sampling techniques and until stabilization parameters, as noted above, were within approximately 10% of the previous reading. Three VOA vials preserved with hydrochloric acid (HCl) were filled first for VOC analysis. Two, 2-liter unpreserved amber jars were filled each for SVOCs, pesticides, and PCB analysis (total of 6). Next, one 250 ml polyurethane container preserved with sodium hydroxide (NaOH) was filled for cyanide analysis. Finally, two, 500 ml polyurethane containers preserved with nitric acid (HNO3) were filled for total metals and dissolved metals. The sample collected for dissolved metals analysis was filtered through a .45 micron in-line filter to remove the suspended solids within the sample. All sample bottles were appropriately labeled and placed in coolers with ice for transportation. Groundwater sampling logs are included in Appendix D.

4.1.3.DRINKING WATER

On May 19, 2010, DNREC-SIRS and ODW collected samples of drinking water from 4 residences located in a community to the west of the Site. Permission was obtained from each of

the property owners prior to collecting the sample. Each sample was collected by an ODW certified Drinking Water Sampling Technician in laboratory supplied containers. Samples were collected for VOCs, trace metals and cyanide.

On April 28, 2011, DNREC-SIRS and ODW collected twelve samples from the same community mentioned above, in the same manner as mentioned above. Samples were collected for trace metals and cyanide only. A map of the community where drinking water samples were collected is shown on Figure 13.

4.2. QUALITY ASSURANCE/QUALITY CONTROL

The QA/QC sample program requires that samples be collected to evaluate the quality of field sampling practices and equipment decontamination practices, including trip blanks, field duplicates, laboratory duplicates, and/or field rinsate blanks. An explanation of each follows below:

Trip Blanks consist of four (4) forty milliliter glass vials filled with distilled water and sealed with a Teflon lined cap. Trip blanks are used to evaluate the potential for cross contamination of site samples from contamination sources outside the sampling area. Trip blanks are filled with distilled water prior to sampling, sealed, transported to the sampling site and returned to the laboratory without reopening for analysis. Trip blanks are analyzed for VOCs only.

Field duplicates consist of an actual sample for which twice as much volume as necessary has been collected. Aliquots of this volume are then distributed in two sets of sample containers and submitted to the laboratory as two separate samples. Field duplicates are used to assess the consistency of sampling homogeneity and laboratory analytical consistency. One field duplicate was collected for soil and one field duplicate was collected for groundwater during this SI.

Laboratory duplicates (also referred to as Matrix Spike/Matrix Spike Duplicate [MS/MSD]) represent a sample location in which twice the normal sample volume is collected. The purpose of the laboratory duplicate is to provide the analytical laboratory with a sample which can also serve to calibrate analytical machinery. The laboratory duplicate is normally spiked with a known concentration of chemical and this sample is used to calibrate the instrument. One MS/MSD was collected for soil and one MS/MSD was collected for groundwater during this SI.

Field Rinsate blanks were not collected during this sampling event since all of the samples were collected using sterile disposable sampling equipment.

4.3. SAMPLE ANALYSIS

Sample analysis consists of all or part of the USEPA Target Analyte List (Inorganics) and Target Compound List (Organics) (TAL/TCL). The TAL/TCL analytes are commonly associated with environmental and human health concerns because they are routinely found in former industrial and land filled areas.

All soil samples collected during this SI were first screened in the DNREC-SIRS laboratory for the following classes of compounds: VOCs, pesticides, SVOCs, polycyclic aromatic hydrocarbons (PAHs), PCBs, total petroleum hydrocarbons (TPH) and metals. Screening was performed using a portable Gas Chromatography/Mass Spectroscopy (GC/MS) and an X-Ray Fluorescence machine (XRF). Screened soil samples identified as having elevated concentrations of contaminants for a particular chemical suite were chosen for confirmatory analysis. Partial and/or full TAL/TCL confirmatory analysis may be conducted upon samples based on the results of the DNREC-SIRS

laboratory screening. Groundwater samples were not screened in the DNREC-SIRS laboratory, but were delivered directly to a confirmatory laboratory for full TAL/TCL analysis. The screening data associated with the Procino Plating site is included in Appendix E.

A GC/MS System was used by the confirmatory laboratory to analyze soil and groundwater samples for SVOCs, VOCs, pesticides and PCBs. Metals were analyzed using an Atomic Absorption Unit and an Inductively Coupled Plasma Unit (AA and ICP). Analysis using the GC/MS system and AA and ICP provides a good tool by which to determine the presence or absence of compounds and analytes at sites under investigation.

For this SI, five (5) of the soil samples (19%) and six (6) of the groundwater samples (100%), plus quality assurance/quality control (QA/QC) samples were submitted to a fixed laboratory for confirmatory analysis of chemicals of concern (COCs). The DNREC Environmental Laboratory in Dover, Delaware performed the analysis of VOCs, SVOCs and metals for both soil and groundwater samples. Test America, Inc. in Edison, NJ performed the analysis of pesticides, PBCs and cyanide for both soil and groundwater samples. Chain of custody records for soil and groundwater samples are included in Appendix F.

Drinking water samples collected for VOCs, trace metals and cyanide on May 19, 2010 were analyzed by the Delaware Public Health Laboratory in Smyrna, Delaware. Drinking water trace metals samples collected on April 28, 2011 were also analyzed by the Delaware Public Health Laboratory. Cyanide samples collected on April 28, 2011 were analyzed by Atlantic Coast Laboratories, Inc. in Newark, Delaware.

All analytical results were compared to appropriate EPA Regional Screening Levels for soil and/or tapwater, and Maximum Contaminant Levels (MCLs) for drinking water. In addition, results were compared to appropriate Delaware Uniform Risk-Based Remediation Standards (DE URS) for the Protection of Human Health as published in the DNREC-SIRS Remediation Standards Guidance under the Delaware Hazardous Substance Cleanup Act (HSCA), Revised December 1999. Soil, groundwater and drinking water analytical results are summarized in Tables 2 through 10, and are provided in Appendices G, H and I, respectively.

5. SOIL EXPOSURE PATHWAY

5.1. PHYSICAL SETTING/SOIL MORPHOLOGY

The Site is mostly covered by office space and warehouse type buildings. A very small portion of the east and south side of the property is grass covered. Paved parking areas extend the length of the northern side of the property, and a dirt access road and unpaved equipment storage areas occupy the west side of the property.

According to the U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS) soil mapping report for Sussex County, the Site area consists of Evesboro loamy sand (EvB). The Evesboro loamy sand has a slope of 2-5%. This soil is found on ridges or on the sides of ridges within or adjacent to areas of Evesboro loamy sand, loamy substratum (EvA) with a 0-2% slope. Small areas of this substratum can have sand to the depth of 6 feet below ground surface. The substratum is finer textured and has the ability to hold moisture, making it better suited for crop cultivation. Woodland stands in the area mainly consist of second-growth hardwoods, but loblolly pine dominates in areas that were once cultivated.

5.2. SOIL TARGETS

Given the current Site land use, contact with potentially contaminated soils would be limited to targets such as visitors, business operators, customers, trespassers, adjacent property owners and migratory animals. There are no daycare facilities or schools within the 200 foot soil exposure pathway. The closest daycare is one mile east of the Site and the closest school is 0.17 miles east of the site. According to 2000 census data, there are approximately 454 people residing within a quarter mile of the Site, and approximately 3,020 people within one mile of the Site.

5.3. SOIL ANALYTICAL RESULTS

VOCs, SVOCs, pesticides and PCBs were not detected in the shallow or deep soil samples selected for confirmatory analysis at concentrations in excess of regulatory standards. VOC analytical results in soil are summarized in Table 2. SVOC analytical results in soil are summarized in Table 3. Pesticide and PCB analytical results in soil are summarized in Table 4.

Iron was detected in soil samples PPMW-03D, PPSB-01D and PPSB-04D at concentrations exceeding its DNREC URS in a Critical Water Resource Area for Unrestricted Use. Concentrations did not exceed the DNREC URS in a Critical Water Resource Area for Restricted Use, or the EPA RSLs for Residential or Industrial use. Other metals were not detected at concentrations in excess of applicable standards. Metals analytical results for soil are summarized in Table 5.

Soil analytical results are provided in Appendix F.

6. GROUNDWATER EXPOSURE PATHWAY

6.1. HYDROGEOLOGIC SETTING

6.1.1.REGIONAL HYDROGEOLOGIC SETTING

Information on the hydrogeologic setting was obtained from the Delaware Geological Survey, and information from the DNREC Division of Water Resources. According to information reviewed, the Site is located entirely within the Atlantic Coastal Plain physiographic province. The sedimentary beds gently dip southeast toward the Atlantic Ocean. The maximum total thickness of sediments is 4,200 feet in the northern portion of the Atlantic Coastal Plain and 5,200 feet thick in the southeastern portion. The general elevation of the Site is 10-20 feet above mean sea level.

The Procino Plating Site is situated on Nanticoke deposits of the area. The Nanticoke deposits consist of brown to light gray, fine- to medium-grained sand. The deposits are finely laminated to structure-less gray to brown clayey sandy silt, silty clayey sand and rare beds of gravelly coarse-to medium-grained sand. Some areas consist of shelly sandy silt, and sandy clayey silt with woody fragments. The Nanticoke deposits unconformably overlie the Pliocene aged Beaverdam Formation.

The Beaverdam Formation consists of light gray to white coarse- to very coarse-grained sand with beds of fine- to medium-grained sand. There is often a silt to clayey silt matrix in the area which can appear white when brought to the surface. Beds of sandy silt, clayey sandy silt, and clayey silt are common. The thickness of this Formation can be 75 to 100 feet. The Beaverdam

Formation is within the unconfined Columbia aquifer. This aquifer has a poor to excellent yield and minor confining beds.

The Cat Hill Formation (sometimes called Manokin Formation) underlies the Beaverdam Formation in the area of the Site, and contains the Manokin Aquifer. This formation is subdivided into subunits A and B. Subunit A consist of gray, blue-gray, and brown-gray silty clayey sand and silty sand with scattered lignite. Subunit B is made up of light to medium gray, or yellow-orange to red-orange, medium- to fine- and course-grained quartz sand with common beds of gravelly sand, and less common beds of clayey to silty sand. The thickness of the Cat Hill Formation can vary from a feather edge to 50 feet thick. The St. Mary's Formation conformably underlies Subunit A and is gradational into Subunit B.

The St. Mary's Formation is made up of blue-gray, green-gray, or gray silty sandy clay, clayey sandy silt, and silty clay, with beds of fine- to medium-grained quartz sand, and fine- to medium-grained gravel in a mud matrix. This formation can be up to 110 feet thick.

6.1.2.LOCAL HYDROGEOLOGIC SETTING

Based on the review of the well logs generated during the drilling of monitoring wells, the shallow geology beneath the Site can generally be described as tan, brown and orange fine to medium grained sands to a depth of approximately 18 feet below ground surface underlain by tan to gray medium to coarse grained sands to a depth of at least 20 feet below ground surface.

Based on water level information gathered from site monitoring wells installed during this SI, shallow groundwater is present between 8 and 11 feet below the ground surface (bgs), and groundwater flow is towards the south-southwest (Figure 14). Monitoring well construction information, survey information, and calculated groundwater elevations are summarized in Table 1. Soil boring logs area included in Appendix B.

6.2. GROUNDWATER SETTING AND TARGETS

The Site is connected to the Town of Blades public water supply. The nearest public well is approximately 0.20 miles north of the Site. The nearest offsite domestic well is approximately 110 feet from the western border of the Site.

Information gathered for the PA at the Site indicated that approximately 4,698 individuals could be using the groundwater for drinking purposes within four miles of the Site. This number may be higher due to wells constructed prior to 1970, when DNRECs well permitting program was initiated. A community located to the west of the Site is not connected to a public water supply. Each tax parcel contains its own private water supply well.

There are 18 well head protection areas within four miles of the Site. In addition, the Site is located within a well head protection area for the Town of Blades water supply wells.

6.3. GROUNDWATER ANALYTICAL RESULTS

6.3.1.ONSITE GROUNDWATER

Chloroform was detected in the groundwater sample collected from site monitoring well PPMW-06 at an estimated concentration of 0.9 micrograms per liter (ug/l). The DNREC Groundwater URS for chloroform is 0.1 ug/l. The concentration is below the EPA RSL for Tapwater and the

EPA MCL. Chloroform is also a common laboratory artifact. Other VOCs were not detected at concentrations in excess of regulatory standards. VOC analytical results in groundwater are summarized in Table 6.

SVOCs were not detected in groundwater samples collected from the Site monitoring wells at concentrations in excess of regulatory standards. SVOC analytical results in groundwater are summarized in Table 7.

Dieldrin was detected in the groundwater sample collected from monitoring wells PPMW-03, PPMW-05 and the PPMW-01duplicate sample at concentrations exceeding its EPA RSL for Tapwater and the DNREC Groundwater URS. An EPA MCL does not exist for Dieldrin. Heptachlor Epoxide was detected in the groundwater sample collected from monitoring well PPMW-03 at a concentration exceeding its EPA RSL for Tapwater and the DNREC Groundwater URS, but below its EPA MCL. PCBs were not detected in the groundwater samples collected from Site monitoring wells. Pesticide and PCB analytical results in groundwater are summarized in Table 8.

Aluminum was detected in the total metals sample collected from monitoring well PPMW-01 and The PPMW-01 duplicate sample at a concentration exceeding its DNREC groundwater URS, but below its EPA RSL for Tapwater. An EPA MCL does not exist for aluminum. Aluminum was not detected in the dissolved metals sample from the same well or the duplicate. Nickel was detected in the total and dissolved metals sample collected from monitoring well PPMW-06 at a concentration exceeding its DNREC Groundwater URS, but below its EPA RSL for Tapwater. An EPA MCL does not exist for Nickel. Chromium was detected in the total and dissolved groundwater sample collected from monitoring well PPMW-06 at a concentration in excess of its DNREC Groundwater URS and its EPA MCL. Cyanide was not detected in any of the groundwater samples collected from site monitoring wells. Metals analytical results in ground water are summarized in Table 9.

Groundwater analytical results are provided in Appendix G.

6.3.2.OFFSITE GROUNDWATER/DRINKING WATER

Barium was detected in six of the private water supply well samples collected in May 2010 and April 2011 at concentrations exceeding its DNREC Groundwater URS, but below its EPA RSL for Tapwater and its EPA MCL. Manganese was detected in 11 of the private water supply well samples collected in May 2010 and April 2011 at concentrations in excess of its DNREC Groundwater URS and its EPA Secondary MCL, but below its EPA RSL for Tapwater. Zinc was detected in the sample collected from one private water supply well in May 2010 at a concentration exceeding is DNREC Groundwater URS and its EPA Secondary MCL, but below its EPA RSL for Tapwater. The same supply well was sampled again in April 2011, and although present, the concentration of zinc was below all applicable standards.

Cyanide was detected in one drinking water sample collected in April 2011. Although the concentration was low (0.02 mg/l, or 20 ug/l), it merits mentioning due to the uncommon nature of the detection. Review of the data and chromatograms by the DNREC-SIRS Senior Chemist indicated that the detected concentration was not an artifact of the laboratory analysis, and that the cyanide was present in the sample. The water supply well that the sample was collected from is screened at a depth of 43 to 48 feet below ground surface.

Analytical results of drinking water well samples is summarized in Table 10, and provided in Appendix H. The locations of the samples are shown on Figure 13.

7. SURFACE WATER AND SEDIMENT EXPOSURE PATHWAY

7.1. HYDROLOGIC SETTING

The Town of Blades is situated inside a bend of the Nanticoke River, directly across from the Town of Seaford, Delaware. The direction of surface water flow, based on topography and site characteristics, appears to be westerly toward the Nanticoke River and the Chesapeake Bay.

The Nanticoke River is approximately 1,300 feet from the western border of the site. The Nanticoke River winds through Delaware and Maryland until it reaches Chesapeake Bay. According to Federal Emergency Management (FEMA) information, the Site lies outside the 500 year flood zone.

7.2. SURFACE WATER AND SEDIMENT SETTING

A review of the Delaware Natural Heritage and Endangered Species Program (NHESP) database was conducted to identify any possible state or federally listed threatened or endangered plants, animals or natural communities within the 15 mile surface water pathway from the Site. According to NHESP, there are currently no rare state or federally listed plants, animals or natural communities at the Site. However, there is numerous state and federally threatened/endangered species listed approximately 3-5 miles downstream and upstream from the Site. There are additional species located within the 15 mile downstream and seven (7) mile upstream extent of the surface water pathway for tidal water bodies.

According to the Surface Water Branch, there are no surface water intakes for potable water in Sussex County.

7.3. SURFACE WATER AND SEDIMENT ANALYTICAL RESULTS

Because surface water and sediment bodies are not located onsite, no surface water or sediment samples were collected during this SI. However, the potential exists, through groundwater discharge, for Site related contaminants to impact the sediments in the Nanticoke River.

8. AIR EXPOSURE PATHWAY

8.1. AIR TARGETS

Site visitors, business operators, customers, trespassers, and adjacent property owners are possible air targets. There are 6 daycares and 11 schools within a four (4) mile air target pathway. The closest daycare is one mile east of the Site and the closest school is 0.17 miles east of the site. According to 2000 census data, there are approximately 454 people residing within a quarter mile of the Site, and approximately 3,020 people within one mile of the Site, and approximately 19,380 people within the four (4) mile air exposure pathway of the Site.

Exposure to site contaminants is not likely to follow a soil or ground-water to air pathway.

8.2. AIR ANALYTICAL RESULTS

A formal air sampling program was not conducted as part of this investigation. Air monitoring was, however, preformed during sampling as part of the Health and Safety Plan (HASP) utilizing a PID. There were no PID readings above background levels detected during sampling activities.

9. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

9.1. SUMMARY

Between May 24 and 26, 2011, DNREC-SIRS personnel collected twenty six (26) soil samples, including both shallow and deep samples, and installed six (6) groundwater monitoring wells at the Site. Groundwater samples were collected from the site monitoring wells on June 16 and 17, 2011. All soil samples were screened in the DNREC-SIRS laboratory for VOCs, SVOCs, pesticides, PCBs, and total metals prior to choosing samples for confirmatory analysis by a fixed laboratory. Each of the 6 groundwater samples (and QA/QC samples) was submitted to a fixed laboratory for analysis. A total of 5 soil samples were analyzed for the full US EPA TAL/TCL analyte list based on screening laboratory results. Each of the groundwater samples was analyzed for the full US EPA TAL/TCL analyte list.

On May 19, 2010 (during completion of the Preliminary Assessment), DNREC-SIRS and ODW personnel collected drinking water samples from four (4) residences located to the west of the Site. On April 28, 2011, twelve (12) drinking water samples were collected from the neighborhood located to the west of the Site.

Iron was detected in soil samples PPMW-03D, PPSB-01D and PPSB-04D at concentrations exceeding its DNREC URS in a Critical Water Resource Area for Unrestricted Use. Concentrations did not exceed the DNREC URS in a Critical Water Resource Area for Restricted Use, or the EPA RSLs for Residential or Industrial use. Other metals were not detected at concentrations in excess of applicable standards.

VOCs, SVOCs, Pesticides and PCBs were not detected in the shallow or deep soil samples selected for confirmatory analysis at concentrations in excess of regulatory standards.

Chloroform detected in the groundwater sample collected from site monitoring well PPMW-06 at an estimated concentration of 0.9 micrograms per liter (ug/l). The DNREC Groundwater URS for chloroform is 0.1 ug/l. The concentration is below the EPA RSL for Tapwater and the EPA MCL. Chloroform is also a common laboratory artifact. Other VOCs were not detected at concentrations in excess of regulatory standards.

SVOCs were not detected in groundwater samples collected from the Site monitoring wells at concentrations in excess of regulatory standards.

Dieldrin was detected in the groundwater sample collected from monitoring wells PPMW-03, PPMW-05 and the PPMW-01duplicate sample at concentrations exceeding its EPA RSL for Tapwater and the DNREC Groundwater URS. An EPA MCL does not exist for Dieldrin. Heptachlor Epoxide was detected in the groundwater sample collected from monitoring well PPMW-03 at a concentration exceeding its EPA RSL for Tapwater and the DNREC Groundwater URS, but below its EPA MCL. PCBs were not detected in the groundwater samples collected from Site monitoring wells.

Aluminum was detected in the total metals sample collected from monitoring well PPMW-01 and The PPMW-01 duplicate sample at a concentration exceeding its DNREC groundwater URS, but below its EPA RSL for Tapwater. An EPA MCL does not exist for aluminum. Aluminum was not detected in the dissolved metals sample from the same well or the duplicate. Nickel was detected in the total and dissolved metals sample collected from monitoring well PPMW-06 at a concentration exceeding its DNREC Groundwater URS, but below its EPA RSL for Tapwater. An EPA MCL does not exist for Nickel. Chromium was detected in the total and dissolved groundwater sample collected from monitoring well PPMW-06 at a concentration in excess of its DNREC Groundwater URS and its EPA MCL. Cyanide was not detected in any of the groundwater samples collected from site monitoring wells.

Barium was detected in six of the private water supply well samples collected in May 2010 and April 2011 at concentrations exceeding its DNREC Groundwater URS, but below its EPA RSL for Tapwater and its EPA MCL. Manganese was detected in 11 of the private water supply well samples collected in May 2010 and April 2011 at concentrations in excess of its DNREC Groundwater URS and its EPA Secondary MCL, but below its EPA RSL for Tapwater. Zinc was detected in the sample collected from one private water supply well in May 2010 at a concentration exceeding is DNREC Groundwater URS and its EPA Secondary MCL, but below its EPA RSL for Tapwater. The same supply well was sampled again in April 2011, and although present, the concentration of zinc was below all applicable standards.

Cyanide was detected in one drinking water sample collected in April 2011. Although the concentration was low (0.02 mg/l, or 20 ug/l), it merits mentioning due to the uncommon nature of the detection. Review of the data and chromatograms by the DNREC-SIRS Senior Chemist indicated that the detected concentration was not an artifact of the laboratory analysis, and that the cyanide was present in the sample. The water supply well that the sample was collected from is screened at a depth of 43 to 48 feet below ground surface.

Surface water, sediment and air samples were not collected as part of this SI.

9.2. CONCLUSIONS

The Site has been operational as a metal plating operation since the 1980's. Soil and groundwater data generated through this assessment was evaluated by DNREC-SIRS from an industrial use, residential use and drinking water use standpoint since the site is surrounded by residential properties, and because area residents hydraulically downgradient of the Site utilize groundwater for drinking water purposes.

Iron detected in the soil samples is well within the range of typical Delaware background soil concentrations (3,000 to 22,000 mg/kg) as reported in the HSCA Remediation Standards Guidance. Therefore it is not considered a potential contaminant of concern (COC) by DNREC-SIRS.

Since dieldrin and heptachlor epoxide were detected in groundwater at concentrations exceeding EPA and DNREC screening levels, they should be considered potential COCs in groundwater.

The chromium detected in Site monitoring well PPMW-06 was reported at concentrations around 10 times the DNREC URS and the EPA MCL, and is considered a potential COC in groundwater by DNREC-SIRS.

Nickel is commonly used for plating, and was detected in the groundwater samples from one Site monitoring well. Although the concentrations do not exceed EPA Screening Levels, DNREC-SIRS considers Nickel a potential COC in groundwater.

The iron detected in dissolved groundwater samples from one well (and its duplicate) at the site, although above DNREC URS values, is not considered a COC because iron is commonly detected at slightly elevated concentrations throughout the State.

Manganese was the only metal detected in the drinking water samples (from several wells) collected at a concentration in excess of its MCL or Secondary MCL. Due to the lack of health related effects from manganese, it is not considered a COC in the drinking water.

9.3. RECOMMENDATIONS

DNREC-SIRS recommends additional assessment at the Site in the form of a remedial investigation (RI) to further evaluate the horizontal and vertical extent of chromium detected in the groundwater from monitoring well PPMW-06 at concentrations exceeding EPA MCLs. In addition, the presence of pesticides in monitoring wells PPMW-01, PPMW-03 and PPMS-05 should be evaluated further since concentrations exceed DNREC and EPA screening levels.

It should also be noted that only shallow groundwater was evaluated during this SI. The uncommon detection of cyanide in an offsite drinking water well from a depth of between 43 and 48 feet below ground surface, coupled with the fact that 1) cyanide containing solutions are commonly used in plating operations, and 2) a polyethylene tank was noted on the property with the words "Cyanide Treatment 2" stenciled on the side, raises concern for an undetected release from the Site. The presence of any Site related compound at a depth greater than approximately 20 feet below ground surface was not evaluated as part of the SI. Therefore, DNREC-SIRS recommend further evaluation groundwater below a depth of 20 feet at the site. In addition, it is recommended that additional private waters supply wells be tested and analyzed for the presence of total metals and cyanide, as indicated on Figure 14.

Lastly, information reviewed by DNREC-SIRS in relation to sediment contamination in the Nanticoke River (DNREC, 1997) indicates that the concentrations of metals in sediments is much greater downstream of Seaford/Blades than upstream. Since the Procino Plating facility is located less than 1,500 feet hydraulically upgradient of the river, the potential exists for site related contaminants to enter the river and impact sediments through groundwater discharge. Without additional information related to the groundwater quality at a depth greater than 20 feet below ground surface, Site related impact to the sediment in the Nanticoke River cannot be ruled out.

The recommended Remedial Investigation can be conducted through DNREC-SIRS' Voluntary Cleanup Program (VCP).

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TABLES

Procino Plating DE-0344

Monitoring Well Information and Groundwater Elevations Procino Plating (DE-0344) Blades, Delaware Table 1

	_					
Groundwater Elevation (ft)	91.42	91.56	91.73	91.85	91.69	91.60
Measured Depth To Water (ft below top of casing) 5/26/2011	8.58	8.30	9.50	11.56	11.18	10.43
Top of Ground Elevation (ft)	100.27	100.23	101.60	103.60	103.12	102.27
Top of Casing Elevation (ft)	100	98.86	101.23	103.41	102.87	102.03
Screened Interval (ft)	8 - 18	8 - 18	8 - 18	8 - 18	9 - 19	8 - 18
Well Depth (ft)	18	18	18	18	19	18
Well Diameter (inches)			, —1		П	
Well Permit Construction Number Date	5/24/2011	5/24/2011	5/24/2011	5/25/2011	5/25/2011	5/25/2011
Well Permit Number	235312	235308	235307	235309	235310	235311
Monitoring Well ID	PPMW-01	PPMW-02	PPMW-03	PPMW-04	PPMW-05	90-WMdd

<u>Notes:</u> Wells constructed using one inch Geoprobe pre-pack well screens and bentonite seals. Wells were surveyed by DNREC-SIRS with an arbitrary vertical datum of 100 feet at the PPMW-01 top of casing.

Table 2
Summary of Soil Analytical Results - VOCs
Procino Plating (DE-0344)
Blades, Delaware

Sample Date					PPMW-03 D 5/24/2011 ma/ka	5/24/2011 5/25/2011 5/24/2011 5/26/2011 5/25/2011 ma/ka ma/ka ma/ka ma/ka ma/ka	PPSB-01 S 5/24/2011 mq/kg	PPSB-04 D 5/26/2011 mg/kg	5/25/201 mg/ka
Chemical force			(545) (145) (145)						
1 Toloui Oportumir	SS CO	atile Organico	misounds by Methox	5.882.60	٩	49	5	9	Ş
2.3.2.TETDACH OBOETUANE	8/00	38000	25	8 2	2 2	2 9	2 €	2 9	2 2
1 2.TRICHIOROL: 2 2.TRIELIOROFFHANE	43000	180000	0.5	2.6	3 5	2 2	2 5	2 5	2 2
1 2-TRICHI OROFIHANE	1 -	23	200	200	9	2 2	2 5	2 5	2
1-DICHI ORDETHANE	3.3	17	200	æ	S	S	S	S	S
1-DICHLOROETHENE	240	1100	0.07	20	5	2	5	2 2	2
2,4-TRICHLOROBENZENE	77	66	28	28	2	B	Q	Ş	Ş
2-DIBROMO-3-CHLOROPROPANE	0.0054	0,069	0.02	0.02	ş	Ş	ę	S	S
2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.034	0.17	0.008	0.01	9	Q	QN	g	SN
2-DICHLOROBENZENE	1900	9800	8	9	S	ð	S	Q	S
2-DICHLOROETHANE	0.43	2.2	0.4	0.5	8	Q	Ş	QN	QN
2-DICHLOROPROPANE	0.94	4.7	0.5	0.5	S	g	9	9	g
3-DICHLOROBENZENE	S)	∑	61	61	QN	Q	ş	2	ş
4-DICHLOROBENZENE	2.4	12	10	01	QN	S	2	2	2
HEXANONE	210	1400	15	15	2	9	2 2	2 5	2
ALC: ONC.	07000	00000	0 0	0 0	Ş	Ş	Ş	Š	2 2
ROMODICHI OROMETHANE	0.27	7	O.S	C. C.	2 2	2 2	2 5	Ş	2 2
ROMOFORM	62	220	10	10	S	S	2	S	2
ROMOMETHANE	7.3	32	1	1	S	Ð	S	9	S
ARBON DISULFIDE	820	3700	10	01	S	Š	ΩN	Ş	Ð
ARBON TETRACHLORIDE	0.61	3	0.3	0.5	Ω	S	QV	S	S
CHLOROBENZENE	290	1400	10	10	Ð	QN	S	Ð	S
HLOROETHANE	15000	61000	0.4	9.4	Q	S	2	Ş	ş
CHLOROFORM	0.29	1.5	0.3	10	2	2	2	2	2
ALCKOME IMANE	750	2000	500	0.5	2	ON S	2 2	3 5	2 2
US-1,Z-DICHLOROEI NENE	8 5	NICA NICA	9.0	0.00	2 2	2 2	2 2	2/2	2 2
TYCH OHEXANE	5002	29000	1000	1800	2 2	2 2	S	2 5	19100
18ROMOCHLOROMETHANE	0.68	333	0.01	0.01	2	2	2	2	S
SICHLORODIFLUOROMETHANE	94	904	100	100	ş	S	2	2	ş
THYLBENZENE	5.4	27	70	70	Q	S	S	ΩN	S
SOPROPYLBENZENE (CUMENE)	2100	11000	110	110	S	S	Ð	S	S
M,P-XYLENE (SUM OF ISOMERS)	হু	Ş	420	420	2	2	S	Ð	2
METHYL ACETATE	78000	1000000	61	61	2	2	2	2	2
METHYL ELHYL KETONE (2-801ANONE) METHYL ISOBICM: KETONE (4-METHYL-3-DENTANONE)	0025	200000	61 -	£1	2 5	2 2	2 2	2 2	2 2
METHYL TERT-BLITYL ETHER (MTBF)	43	220	2	7	£	S	9	Q.	2
METHYLCYCLOHEXANE	Ž	Z.	Ş	2	2	2	0.0363	9	0.05 1
4ETHYLENE CHLORIDE	11	53	0.5	0.5	Ø	QV	0.023 J	0.023 3	0.021 3
2-XYLENE (1,2-DIMETHYLBENZENE)	069	3000	410	410	S	S	9	8	S
TYRENE	6300	36000	24	24	ð	2	Q	Ş	2
ETRACHLOROETHENE	0.55	5.6	0.5	0.5	Θ.	Q	Q	₽	2
OLUENE	2000	45000	81	200	Q.	S	9	2	8
RANS-1,2-DICHLOROETHENE	150	069	10	01	2	QZ	9	2	2
RANS-1, 3-DICHLOROPROPENE	NO.	₫:	0.008	0.008	2	2	2	2	2 :
ALCALOROE PRINE	790	3400	200	0,00	2 2	2 2	3 8	2 2	2 2
ANY CHORIDE	0.06	1.7	0.03	0.2	2	2	2	S	S

Modes.

Mode A Vo Criteria Available

NO. + NO Criteria Available

NO. + NO Detected

J - Estimated Concentration

ONREC URISC Uniform Risk Based Remediation Standard for Protection of Human Health in a Critical Water Resource Area

Table 3 Summary of Soil Analytical Results - SVOCs Procino Plating (DE-0344) Blades, Delaware

Sample Famela Data						PPMW-06 D			1
Sample Date Unit					5/24/2011 mg/kg	5/25/2011 mg/kg	5/24/2011 mg/kg	5/26/2011 mg/kg	5/25/2011 mg/kg
	EPARS	194.05	DANGE UPS CRIVA	DIVERSIONS.					
Clemical Name	respense	i industrial	Unrestricted Use	CRIVA RESERVE					
	Semi	j oreagg volable Organi	c Compounds by Met	hod SW8270	1	1	1		1
1,1-BIPHENYL	51	210	3	3		ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	22	99	28	28 60	ND	ND ND	ND ND	ND ND	ND ND
1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE	1900 NCA	9800 NCA	60	61	ND ND	ND	ND	ND	ND ON
1,4-DICHLOROBENZENE	2.4	12	10	10	ND	ND	ND	ND	ND
2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL	6100 44	62000 160	220	220 2	ND ND	ND ND	ND ND	ND ND	ND ND
2,4-DICHLOROPHENOL	180	1800	2	2	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	1200	12000	7	7	ND	ND	ND	ND	ND
2,4-DINITROPHENOL 2.4-DINITROTOLUENE	120 1.6	1200 5.5	0.7	0.7	ND ND	ND ND		ND ND	ND ND
2,6-DINITROTOLUENE	61	620	0.7	0.4	ND	ND		ND	ND
2-CHLORONAPHTHALENE	6300	82000	620	620	ND	ND	ND	ND	ND
2-CHLOROPHENOL 2-METHYLNAPHTHALENE	390 310	5100 4100	4	1	ND ND	ND ND		ND ND	ND ND
2-METHYLPHENOL (O-CRESOL)	3100	31000	18	18	ND	ND	÷	ND	ND ON
2-NITROANILINE	610	6000	0.02	0.02	ND	ND	ND	ND	ND
2-NITROPHENOL 3,3'-DICHLOROBENZIDINE	NCA	NCA 3.8	NCA 1	NCA 6		ND ND		ND ND	ND ND
3-NITROANILINE	1.1 NCA	NCA	NCA .	NCA		ND		ND ND	ND
4,6-DINITRO-2-METHYLPHENOL	4.9	49	0.04	0.04	ND	ND	ND	ND	ND
4-BROMOPHENYL PHENYL ETHER 4-CHLORO-3-METHYLPHENOL	NCA 6100	NCA 62000	NCA NCA	NCA NCA		ND ND		ND ND	ND ND
4-CHLOROANILINE	2.4	8.6	2		ND ND	ND			ND
4-CHLOROPHENYL PHENYL ETHER	NCA	NCA	NCA	NCA	ND	ND	ND	ND	ND
4-METHYLPHENOL (P-CRESOL)	310	3100	2	2	ND	ND	ND	ND ND	ND
4-NITROANILINE 4-NITROPHENOL	24 NCA	86 NCA	NCA 6	NCA 6	ND ND	ND ND	ND ND	ND	ND ND
ACENAPHTHENE	3400	33000	270	270	ND	ND	ND	ND	ND
ACENAPHTHYLENE	NCA TODA	NCA ************************************	NCA 0.0004	NCA 0.0004	ND	ND ND	ND ND	ND ND	ND ND
ACETOPHENONE ANTHRACENE	7800 17000	100000 170000	0.0004 1000	0.0004 5000	ND ND	ND ND		ND ND	ND ND
ATRAZINE	2.1	7.5	0.3	0.3	ND	ND	ND	ND	ND
BENZALDEHYDE BENZO(A) ANTE IDACENIE	7800	100000	37 0.9	37		ND ND			ND ND
BENZO(A)ANTHRACENE BENZO(A)PYRENE	0.15 0.015	2.1 0.21	0.09	8.0		ND			ND :
BENZO(B)FLUORANTHENE	0.15	2.1	0.9	8		ND		ND	ND
BENZO(G,H,I)PERYLENE	NCA_	NCA .	NCA NCA	NCA 70		ND ND			ND ND
BENZO(K)FLUORANTHENE BIS(2-CHLOROETHOXY) METHANE	1.5 180	1800	9 NCA	78 NCA		ND			ND .
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.21	1	0.0001	0.0001	ND	ND	ND	ND	ND
BIS(2-CHLOROISOPROPYL) ETHER	4.6 35	22	9	30		ND ND			ND ND
BIS(2-ETHYLHEXYL) PHTHALATE BUTYL BENZYL PHTHALATE	260	120 910	46 930	130 5000		ND			ND ND
CAPROLACTAM	31000	310000	180	180	ND	ND	ND	ND	ND
CARBAZOLE	NCA 15	NCA 210	0.3 87	0.3 780		ND ND			ND ND
CHRYSENE DIBENZ(A,H)ANTHRACENE	15 0.015	0.21	0.09						ND ND
DIBENZOFURAN	78	1000	0.2	0.2	ND	ND	ND	ND	ND
DIETHYL PHTHALATE DIMETHYL PHTHALATE	49000 NCA	490000 NCA	500 NCA	500 NCA	~~~				ND ND
DI-N-BUTYL PHTHALATE	6100	62000	NCA NCA						ND ND
DI-N-OCTYLPHTHALATE	NCA	NCA	7	7	ND				ND
FLUORANTHENE FLUORENE	2300	22000	310	1800 300					ND ND
HEXACHLOROBENZENE	2300 0.3	22000 1.1	0.4						ND
HEXACHLOROBUTADIENE	6.2	22	1	1	ND				ND
HEXACHLOROCYCLOPENTADIENE	370	3700	10	90 0.6					ND ND
HEXACHLOROETHANE INDENO(1,2,3-C,D)PYRENE	35 0.15	2.1	0.6						ND ND
ISOPHORONE	510	1800	10	10	ND	ND	ND	ND	ND
NAPHTHALENE	3.6	18	5						ND ND
NITROBENZENE N-NITROSODI-N-PROPYLAMINE	4.8 0.069	24 0.25	0.04						ND ND
N-NITROSODIPHENYLAMINE	99	350	2	2	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	0.89	2.7	5						ND
PHENANTHRENE PHENOL	NCA 18000	NCA 180000	1000 400						ND ND
PYRENE	1700	17000	230						ND
Notes:									

Notes:
mg/kg - milligrams per kilogram
NCA - No Criteria Available
ND - Not Detected
DNREC URS CWRA - DNREC Uniform Risk Based Remediation Standard for Protection of Human Health in a Critical Water Resource Area

Summary of Soil Analytical Results - Pesticides & PCBs Procino Plating (DE-0344) Blades, Delaware Table 4

Sample Sample Date Unit					PPMW-03 D PPMW-06 D PPSB-01 S PPSB-04 D PPSB-05 S 5/24/2011 5/25/2011 5/24/2011 5/26/2011 5/25/2011 mg/kg mg/kg mg/kg mg/kg	PPMW-06 D 5/25/2011 mg/kg	PPSB-01 S 5/24/2011 mg/kg	PPSB-04 D 5/26/2011 mg/kg	PPSB-05 S 5/25/2011 mg/kg
Chemical Name	Era Sa Residenta (mg/sa)	Francisco Historical	PMPECURS CRAW Unrestreted use (no.1%)	DIRECTES FWA Neutralisa (F9/9)					
		Pes	Pesticides by Method SWI	190					
ALDRIN	0.029	0.1	0.0004	0.004	2	S	Q.	S	g
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.077	0.27	0.001	0.001	N Q	QN	QN	QN	9
ALPHA ENDOSULFAN	NCA	NCA	NCA	NCA	ΝĎ	QN	QN	ND	0.027
ALPHA-CHLORDANE	N S	NCA	NCA	NCA	N O	ON	ND	NO	0.033 P
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.27	0.96	0.004	0.004	- QN	ND	QN	ND	ND
BETA ENDOSULFAN	Z Z	N.C	NCA	NCA	S	S	S	QN	9
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	NCA	NCA	0.004	0.004	GN	QN	ND	QN	QN
DIELDRIN	0.03	0.11	0.04	0,1	S	QN	QN	GN	QN
ENDOSULFAN SULFATE	N.C	Š	NCA	NCA	S	S	SP	Q	S
ENDRIN	18	180	2	9	S	QN	ND	Q	S
ENDRIN ALDEHYDE	NS	NG NG	NCA	NCA	N	QN N	ND	QN	QN
ENDRIN KETONE	NGA	NCA	NCA	NCA	QN	ON	ND	QN	N ON
GAMMA BHC (LINDANE)	0.52	2.1	0.07	0.07	QN	Q	QN	ND	Q.
GAMMA-CHLORDANE	1.6	6.5	2	16	S	ND	ND	QN	0.018
HEPTACHLOR	0.11	0.38	0.1	0.7	QN	QN	ON	QN	QN
HEPTACHLOR EPOXIDE	0.053	0.19	0.07	9.0	S	S	QN	Q	0.028
METHOXYCHLOR	310	3100	39	630	QN	ND	Q	QN	QN.
J.PDDD	2	7.2	3	3	Q	QN	QN.	ND	ND
JO-,d'd	1.4	5.1	7	4	QN	Q	S	ND.	0.011
T00-'4,9	1.7	7	2	12	2	QN	S	QN	QN
TOXAPHENE	0.44	1.6	0.6		ON	Q.	S	QN	QN.
		Polychlorin	ated Biphenyls by Met	nod SW8082					
AROCLOR 1016	3.9	21	S	18	QN	ON	QN	ND	ND
AROCLOR 1221	0.14	0.54	0.3	0.5	S	ND	QN	ND	ND
AROCLOR 1232	0.14	0.54	0.3	0.5	ON	ND	QN	QN	S
AROCLOR 1242	0.22	0.74	0.3	Э	QN	Q	S	N	S
AROCLOR 1248	0.22	0.74	0.3	2	ON	9	S	Q	9
AROCLOR 1254	0.22	0.74	0.74 0.3 3	m	GN	S	QN	S	S
AROCLOR 1260	0.22	0.74	0.3	3	SN SN	QN	9	S	9
Notes:									

Notes: mg/kg - milligrams per kilogram NCA - No Criteria Available ND - Not Detected P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported by the laboratory. DNREC URS CWRA - DNREC Uniform Risk Based Remediation Standard for Protection of Human Health in a Critical Water Resource Area

Summary of Soil Analytical Results - Metals Procino Plating (DE-0344) Blades, Delaware Table 5

Sample Sample Date Unit					5/24/2011 ma/ka	PPMW-06 D 5/25/2011 ma/ka	PPSB-01 S 5/24/2011 ma/ka	PPSB-04 D 5/26/2011 ma/ka	PPSB-05 S 5/25/2011 ma/ka
Chemical Name	EPA RS: Residential (mg/kg)	EPA RSI Industrial (mg/kg)	DWRFC URS CWRA Unrestricted Use (mg/kg)	DINREC URS CARA Restricted Use (mg/kg)		, d. l			
				Metals by Method (200.)	1				
ALUMINUM	77000	000066		200000	4070	2750	5050	6110	2480
ANTIMONY	31	410	3	27	Q.	S	S	S	S
ARSENIC	0.39	1.6	*17	*	Q.	2	Q.	2	ND
BARIUM	15000	190000	550	14000	8	QN.	S	Q.	S
BERYLLIUM	160	2000	16	410	S	9	2	8	S
CADMIUM	70	800	4	38	Q.	2	2	2	9
CALCIUM	NCA	NGA	NCA	NCA	291	GN	2590	438	609
CHROMIUM, TOTAL	NCA	NCA	12000	310000	3.1	14.1	2.8	5.1	2.6
COBALT	23	300	22	22	S	9	9	9	9
COPPER	3100	41000	310	8200	S	2.2	1.5	1.4	8.7
IRON	55000	720000	2300	61000	2630	2010	3030	4410	1880
LEAD	400	800	400	1000	1.8	1.8	5.8	2.9	10.0
MAGNESIUM	NCA	NCA	NCA	NCA	Q	GN.	273	328	QN
MANGANESE	1800	23000	160	4100	14.4	13.8	22.0	22.0	39.9
NICKEL	1500	20000	160	650	QN	QN.	S	QN	S
POTASSIUM	NCA	NCA	NCA	NCA	Q.	S.	S	243	2
SELENIUM	390	5100	26	26	ND	QN	QN	QN	QN.
SILVER	390	5100	39	84	QN	QN	S	MD	ND
SODIUM	NCA	NGA	NCA	NCA	QN	QN	QN	ND	ND
THALLIUM	0.78	10	14	14	Q.	g	QN ON	QN	S
VANADIUM	NCA	NCA	55	1400	QN	QN	ND	DN	ND
ZINC	23000	310000	2300	2300	4.5	3.7	7.1	9.9	14.6
			Merc	uny by Method C245	S				
MERCURY	10	43	10	10	8	ON O	QN	9	ND
			Cyanai	Cyanaide by Method SW901	12A				
CYANIDE	1600	20000	160	200	ND	ON	QN	ON	ON
Notes:									

Notes:

mg/kg - milligrams per kilogram * Delaware Background Concentration NCA - No Criteria Available

ND - Not Detected
DNREC URS CWRA - DNREC Uniform Risk Based Remediation Standard for Protection of Human Health in a Critical Water Resource Area
Shaded - Concentration exceeds DNREC URS CWRA for Unrestricted Use

Table 6 Summary of Groundwater Analytical Results - VOCs Procino Plating (DE-0344) Blades, Delaware

Location	***************************************			DDM	IW-01	PPMW-02	PPMW-03	PPMW-04	PPMW-05	PPMW-06
Sample				DUP1	PPMW01	PPMW02	PPMW03	PPMW04	PPMW05	PPMW06
Sample Date					6/16/2011				6/17/2011	1
Unit				ug/I	ug/1	ug/l	ug/I	ug/l	ug/l	ug/l
Offic				09/1	1 49/	ay,	09/1	ug/,	49/1	ug/.
	60.00	E00.85	DWREGURE							
Series		Tapwater	Grantsster							
		rugah	100/0]		
	Voli	itile Organic	Compounds by	Method SW8	3260					
1,1,1-TRICHLOROETHANE	200	9100	200	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	NCA	0.067	0.05	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NCA	59000	5900	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	5	0.24	0.2	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	NCA	2.4	81	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	7	340	0.04	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	70	2.3	70	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.2	0.00032	0.05	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.05	0.0065	0.001	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	600	370	64	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	0.15	0.1	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	. 5	0.39	0.2	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	NCA	NCA	0.5	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	75	0.43	0.4	ND_	ND	ND	ND	ND	ND	ND
2-HEXANONE	NCA	47	150	ND	ND	ND	ND	ND	ND	ND
ACETONE	NCA	22000	61	ND	ND	ND	ND	ND	ND	ND
BENZENE	5	0.41	0.4	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	NCA	0.12	0.2	ND	ND	ND	ND	ND	ND	ND
BROMOFORM	NCA	8.5	8	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	NCA	8.7	9	ND	ND	ND	ND	ND	ND	ND
CARBON DISULFIDE	NCA	1000	100	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	5	0.44	2.	ND	ND	ND	ND	ИD	ND	ND
CHLOROBENZENE	100	91	11	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	NCA	21000	4	ND	ND	ND	ND	ND	ND	ND
CHLOROFORM	NCA	0.19	0.1	ND	ND	ND	ND	ND	ND	0.9.)
CHLOROMETHANE	NCA	190	2	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHENE	70	73	61	ND	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	NCA	NCA	0.08	ND	ND	ND	ND	ND	ND	ND
CYCLOHEXANE	NCA	13000	18000	ND	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	NCA	0.15	0.1	ND	ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	NCA	200	350	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	700	1.5	700	ND	ND	ND	ND	ND	0.4 J	ND
ISOPROPYLBENZENE (CUMENE)	NCA	680	66	ND	ND	ND	ND	0.4 J	ND	ND
M,P-XYLENE (SUM OF ISOMERS)	NCA	NCA	1200	ND	ND	ND	ND	ND	ND	ND
METHYL ACETATE	NCA	37000	610	ND	ND	ND	ND	ND	ND	ND
MÉTHYL ETHYL KETONE (2-BUTANONE)	NCA	7100	190	ND	ND	ND	ND	ND	ND	ND
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NCA	2000	14	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	NCA	12	20	ND	ND	ND	ND	ND	ND	ND
METHYLCYCLOHEXANE	NCA	NCA	NCA	ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	4.8	4	ND	ND	ND	ND	ND	ND	ND
O-XYLENE (1,2-DIMETHYLBENZENE)	NCA	200	1200	ND	ND	ND	ND	ND	ND	ND
STYRENE	100	1600	100	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	5	0.11	1	ND	ND	ND	ND	ND	ND	ND
TOLUENE	1000	2300	750	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE -	100	110	100	ND	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	NCA	NCA	0.08	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	2.	2	ND	ND	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	NCA	1300	1300	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	2	0.016	0.02	ND	ND	ND	ND	ND	ND	ND
XYLENES, TOTAL	10000	200	1200	ND	ND I	ND	ND	ND I	ND	ND

Notes: ug/l - micrograms per liter NCA - No Criteria Available

ND - Not Detected
J - Estimated Concentration
DNREC URS Groundwater - DNREC Uniform Risk Based Remediation Standard for Protection of Human Health
Shaded - Concentration exceeds DNREC Groundwater URS

<u>Underline</u> - Concentrations exceeds EPA Regional Screening Level for Tapwater

Table 7 Summary of Groundwater Analytical Results - SVOCs Procino Plating (DE-0344) Blades, Delaware

Location				ррм	W-01	PPMW-02	PPMW-03	PPMW-04	PPMW-05	PPMW-06
Sample				DUP1	PPMW01	PPMW02	PPMW03	PPMW04	PPMW05	PPMW06
Sample Date				6/16/2011	6/16/2011	6/16/2011	6/16/2011		6/17/2011	6/17/2011
Unit		*		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
	B 554 461	54.0	10000							
Served	100	100	Groundsate							
		volagle Organic			(632)			ļ		l
1.1-BIPHENYL	NCA	0.83	30	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	70	2.3	70	ND	ND	ND	ND	ND	ND	ND
1,2-D1CHLOROBENZENE	600	370	64	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	NCA	NCA	0.5	ND	ND	ND	ND	ND	ND	ND
1,4-D1CHLOROBENZENE 2,4,5-TRICHLOROPHENOL	75 NCA	0.43 3700	0.4 370	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2,4,6-TRICHLOROPHENOL	NCA	6.1	6	ND	ND	ND ND	ND	ND ND	ND ND	ND
2,4-DICHLOROPHENOL	NCA	110	20	ND	ND	ND	ND	ND	ND	ND
2,4-DIMETHYLPHENOL	NCA	730	73	ND	ND	ND	ND	ND	ND	ND
2,4-DINITROPHENOL	NCA NCA	73	7	ND ND	ND	ND	ND	ND	ND ND	ND
2,4-DINITROTOLUENE 2,6-DINITROTOLUENE	NCA NCA	0.22 37	4	ND ND	ND ND	MD MD	ND ND	ND ND	ND ND	ND ND
2-CHLORONAPHTHALENE	NCA	2900	49	ND	ND	ND	ND	ND	ND	ND
2-CHLOROPHENOL	NCA	180	30	ND	ND	ND	ND	ND	ND	ND
Z-METHYLNAPHTHALENE	NCA	150	12	ND	ND	ND	ND	ND	ND	ND
2-METHYLPHENOL (O-CRESOL)	NCA NCA	1800	180	ND	ND	ND ND	ND ND	ND ND	ND	ND
2-NITROANILINE 2-NITROPHENOL	NCA NCA	370 NCA	0.2 NCA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
3,3'-DICHLOROBENZIDINE	NCA NCA	0.15	0.2	ND	ND	ND	ND	ND	ND ND	ND
3-NITROANILINE	NCA	NCA	NCA	ND	ND	ND	ND	ND	ND	ND
4,6-DINITRO-2-METHYLPHÉNOL	NCA	2.9	0.4	ND	ND	ND	ND	ND	ND	ND
4-BROMOPHENYL PHENYL ETHER	NCA NCA	NCA 3700	NCA NCA	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-CHLORO-3-METHYLPHENOL 4-CHLOROANILINE	NCA NCA	3700 0.34	NCA 15	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
4-CHLOROPHENYL PHENYL ETHER	NCA	NCA	NCA	ND	ND	ND	ND	ND	ND	ND
4-METHYLPHENOL (P-CRESOL)	NCA	180	18	ND	ND	ND	ND	ND	ND	ND
4-NITROANILINE	NCA	3.4	NCA	ND	ND	ND	ND	ND	ND	ND
4-NITROPHENOL	NCA NCA	NCA 2200	60	ND	ND	ND ND	ND	ND	ND ND	ND ND
ACENAPHTHENE ACENAPHTHYLENE	NCA NCA	2200 NCA	37 NCA	ND ND	DN GN	ND ND	ND ND	ND ND	ND ND	ND ND
ACETOPHENONE	NCA	3700	0.004	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	NCA	11000	180	ND	ND	ND	ND	ND	ND	ND
ATRAZINE	3	0.29	0.3	ND	ND	ND	ND	ND	ND	ND
BENZALDEHYDE DENZO(A)AMERIDACENIE	NCA NCA	3700	370	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND
BENZO(A)ANTHRACENE BENZO(A)PYRENE	NCA 0.2	0.029 0.0029	0.09	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND
BENZO(B)FLUORANTHENE	NCA	0.029	0.09	ND	ND	ND	ND	ND	ND	ND
BENZO(G,H,I)PERYLENE	NCA	NCA	NCA	ND	ND	ND	ND	ND	ND	ND
BENZO(K)FLUORANTHENE	NCA	0.29	0.9	ND	ND	ND	ND	ND	ND	ND.
BIS(2-CHLOROETHOXY) METHANE BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	NCA NCA	0.012	NCA 0.01	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BIS(2-CHLOROISOPROPYL) ETHER BIS(2-CHLOROISOPROPYL) ETHER	NCA	0.012	0.01	ND	ND ND	ND	ND	ND ND	ND ND	ND
BIS(2-ETHYLHEXYL) PHTHALATE	6	4.8	5	ND	ND	ND	ND	ND	1)	ND
BUTYL BENZYL PHTHALATE	NCA	35	730	ND	ND	ND	ND	ND	ND	ND
CAPROLACTAM	NCA	18000	1800	ND ND	ND	ND	ND	ND ND	ND	ND
CARBAZOLE CHRYSENE	NCA NCA	NCA 2.9	9	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
DIBENZ(A,H)ANTHRACENE	NCA NCA	0.0029	0.01	ND	ND	ND	ND	ND	ND	ND
DIBENZOFURAN	NCA	37	2	ND	ND	ND	ND	ND	ND	ND
DIETHYL PHTHALATE	NCA	29000	5000	ND	ND	ND	ND	ND	ND	ND
DIMETHYL PHTHALATE	NCA NCA	NCA 3700	NCA NCA	ND	ND NO	ND ON	ND ND	ND	ND I	ND ND
DI-N-BUTYL PHTHALATE DI-N-OCTYLPHTHALATE	NCA NCA	3700 NCA	NCA 73	ND ND	ND ND	ND DN	ND ND	ND ND	ND ND	ND ND
FLUORANTHENE	NCA NCA	1500	150	ND ON	ND ND	NO	ND	DO	ND	ND
FLUORENE	NCA	1500	24	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	1	0.042	0.04	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	NCA ED	0.86	0.9	ND ND	ND	ND	ND	ND	ND ND	ND ND
HEXACHLOROCYCLOPENTADIENE HEXACHLOROETHANE	50 NCA	220 4.8	26 1	ND ND	ND ND	ND DN	ND ND	ND ND	ND ND	ND ND
INDENO(1,2,3-C,D)PYRENE	NCA NCA	0.029	0.09	ND	ND	ND	NO	ND	ND	ND
ISOPHORÔNE	NCA	71	71	ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE	NCA	0.14	0.7	ND	ND	ND	ND	ND	ND	ND
NITROBENZENE PROPERTAMENT	NCA NCA	0.12	0.4	ND ND	ND	ND	ND I	ND ND	ND NO	ND ND
N-NITROSODI-N-PROPYLAMINE N-NITROSODIPHENYLAMINE	NCA NCA	0.0096 14	0.01	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
PENTACHLOROPHENOL	1	0.17	0.6	ND	ND ND	ND	ND	ND	ND ND	ND ND
PHENANTHRENE	NCA	NCA .	120	ND	ND	ND	ND	ND	ND	ND
PHENOL	NCA	11000	4000	ND	ND	ND	ND	ND	ND	ND
PYRENE	NCA	1100	18	ND	ND	ND	ND	ND	ND	ND
Notes:										

Notes:

ug/I - micrograms per liter
NCA - No Criteria Available
ND - Not Detected
J - Estimated Concentration

DNREC URS Groundwater - DNREC Uniform Risk Based Remediation Standard for Protection of Human Health

Summary of Groundwater Analytical Results - Pesticides and PCBs Procino Plating (DE-0344) Blades, Delaware

Location				Mdd	PPMW-01	PPMW-02	PPMW-03	PPMW-04	PPMW-05	PPMW-06
Sample Sample Date Unit				DUP1 6/16/2011 ug/l	6/16/2011 6/16/2011 ug/l ug/l	PPMW02 6/16/2011 ug/l	PPMW03 6/16/2011 ug/l	PPMW04 6/16/2011 ug/l	PPMW05 6/17/2011 ug/l	6/17/2011 ug/I
Chemical	C14 - C3	SPA KSL Tapa attr	OMPEC ORS Groundwater ogn					i		
		Pestic	Pesticides by Methos SW8081	SW8081						
ALDRIN	ă	0.004	0.004	S	S	Ð	Q	g	8	QN
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	N.S	0.011	0.01	9	ą	S	S	GΝ	Q	S
ALPHA ENDOSULFAN	N A	NCA	ă	9	S	S	S	9	2	S
ALPHA-CHLORDANE	S.	S	Š	9	S	S	0.11 P	Ð	9	S
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	NCA	0.037	0.04	S	QN	GN	QN.	2	SN	g
BETA ENDOSULFAN	NCA	NCA	NCA	S	QV	S	Q	S	QN	g
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	NCA	NCA	0.04	S	S	Q.	Q	S	Q	g
DIELDRIN	N S	0.0042	0.004	0.14	8	ş	1.2	S	0.62	Q
ENDOSULFAN SULFATE	Š	Š	S	S	QV	QN	Ð	ą	Q	ð
ENDRIN	2	11	2	S	S	g	QN	Ð	Q	8
ENDRIN ALDEHYDE	NGA	NG	N S	S	Q	S	g	Ð	S	QN
ENDRIN KETONE	S	NCA	NCA	9	Q	S	0.047 3	Ø	0.058	S
SAMMA BHC (LINDANE)	0.2	0.061	0.05	Q.	QN	QN	QN	ON	ND	QV
GAMMA-CHLORDANE	2	0.19	0.2	S	QN	S	0.034 Jp	S	QN	QN
HEPTACHLOR	0.4	0.015	0.01	S	QN	S	QN	Q	QV	S
HEPTACHLOR EPOXIDE	0.2	0.0074	0.007		QN	ON	0.055 P	QN	QN	ON
METHOXYCHLOR	40	180	40		QN		ND	QN	ON	QN.
QQQ-,d′d	NO.	0.28	0.3		QN	8	ND	S	S	Q
P,P'-DDE	Ŋ	0.2	0.2		QN		NO.	QN	QN N	Ø
P,P'-DDT	NCA	0.2	0.2	S	Q.		QN	QN	Q.	Q
TOXAPHENE	٣	0.061	90.0	QN	9		S	S	8	Ø
		Polychlorinated	ed Biphenyls by	Method SV	V8082					
AROCLOR 1016	NCA	0.96	0.10	S	S		ND	QN	QN	S
AROCLOR 1221	NG	0.0068	0.03		Ø	QN	ΔN	QV	QN	S
AROCLOR 1232	NGA	0.0068	0.03	ND	ND	QN	DN	Q	ND	QN
AROCLOR 1242	NG	0.034	0.03	QN	DN	QN	DN	QN	ND	QN
AROCLOR 1248	Š	0.034	0.03	8	Ø	QN	QN	8	ΔN	Q.
AROCLOR 1254	S S	0.034	0.03	8	Ω	ş	S	2	S	g
AROCI OR 1260	S	0.034	0.03	2	2	2	2	2	2	2

ug/l - micrograms per liter NCA - No Criteria Available ND - Not Detected

3 - Estimated Concentration

P - the %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported by the laboratory. DNREC URS Groundwater - DNREC Uniform Risk Based Remediation Standard for Protection of Human Health Shaded - Concentration exceeds DNREC Groundwater URS <u>Underling</u> - Concentrations exceeds EPA Regional Screening Level for Tapwater

Summary of Groundwater Analytical Results - Metals Procino Plating (DE-0344) Blades, Delaware Table 9

Location					10-WMdd	V-01		PPMW-02	7-02	E0-WMdd	-03	PPMW-04	V-04	PPMW-05	V-05	90-WMdd	90-/
Samole			•	1010	Dilb1	PPMW01	PPMW01	COMMOD	COMMOD	PDWWD3	PDWWNG	PPMW04	PPMW04	PDMWNG	PPMW05	PPMW06	PPMWN6
Total (T) or Dissolved (D)	(a)			5 0	; ; ;		-	0			}	۵	-	۵	<u></u>		<u>-</u>
Sample Date				6/16/2011	6/16/2011	6/16/2011 6/16/2011 6/16/2011 6/16/2011 6/16/2011	5/16/2011		6/16/2011 6/16/2011 6/16/2011	/16/2011 €	5/16/2011	6/16/2011	6/16/2011	6/17/2011	6/17/2011 6/17/2011 6/17/2011	5/17/2011	5/17/2011
Unit				l/bn	l/gn	l/gn	1/60		l/bn	l/bn	l/bn				l/bn	l/bn	l/gn
Chamica	100	100	DMRECHES GREENWARE (LDI)						Anna de la composición dela composición de la composición dela composición de la composición de la composición de la com								
							Metals by N	Method C200	1.7								
ALUMINUM	NCA	37000	200	2	841	2	722	QN	S	9	S	S	S	QN	N O	QN	Q
ANTIMONY		15	9	Ð	Q.		ND.	Ð	Q	S	S	QN	g	Q.	QN	Q	S
ARSENIC	10	0.045	0.50	2	NO.		ON	ND	ND	QN	S	ND	ND	ND	QN	QN	g
BARIUM	2000	7300	260	9	Q		2	SN SN	Q.	S	S	9	S	Ð	Q.	QN	S
BERYLLIUM	4	73	4	S	QN		QN	QN ON	Q.	9	S	QN	S	QN	QN	QN	Q.
CADMIUM	S	18	5	9	Ð	8	2	9	S	S	S	S	S	2	S	QN	QN
CALCIUM	NCA	NG	NCA	10100	10800		9760 EW	21600 EW	21100 EW	12800	13100	23800 EW	23500 EW	20500	22000	12500	13300
CHROMIUM, TOTAL	100	NCA	100	S	S		QN	QV.	QN	QN	S	ON	QN	ON	Q.	959	1030
COBALT	NCA	11	220	QN	QN		ND	ON	ND	ND	ND	QN	NO.	ND	QN	UD	S.
COPPER	1300	1500	1300	QN	QN		ND	QN	Q	DN	S	Q.	DN	DN	Q.	SN	S
IRON	NCA	26000	300	QN	455		337	QV	Q.	ND	SD	Q	ND	745	892	167	217
LEAD	15	NCA	15	S	QN		ND	ND N	9	QN	S	ND	QN	QN	S	Q	Q
MAGNESIUM	NCA	NGA	NCA	1810	1960	1820 EW	1790 EW	3770 EW	3670 EW	2420	2500	5240 EW	5160 EW	1910	2040	1560	1650
MANGANESE	SN.	880	20	S	QN	QN	QN	QN	QN	49.3	50.8	QN	QN	53.0	56.8	58.8	62.6
NICKEL	S	730	100	47.5	48.3	47.3 EW	43.5 EW	S	Q	Q.	S	Q.	QN	ND	QN	377	399
POTASSIUM	NCA	NCA	Ž.	1660	1760	1660 EW	1610 EW	2700 EW	2650 EW	3600	3610	4420 EW	4170 EW	3360	3480	19100	20200
SELENIUM	- 20	180	20	QN.	QN	2	QN	Q.	Q.	QN	QN	Q	QN	ND	S	S	Q.
SILVER	NCA	180	100	S	g	9	S	9	Ð	S	S	S	S	9	9	S	S
SODIUM	స్ట	స్ట	Š	4420	4490	4260	4260	6240	6240	8020	8410	13600 EW	13200 EW	16900	17900	7780	8310
THALLIUM	2	0.37	2	S	QV	Q	S	Q	Ø	g	g	Q	Ş	S	QN	S	S
VANADIUM	NG	NCA	52	S	QN	QN	QN	GN	QN	QN	QN	QN.	QN	QN	QN	QN.	QN
ZINC	Š	11000	2000	S	QN.	9	S	S	Ð	29.7	30.5	QN	SP.	g	S	304	321
							dercury by	Method C24	5.1								
MERCURY	2	0.63	2	S	8	S	S	g	Q	QN	QN	ΩN	QN	ð	Ş	æ	ð
							Syanide by	Method E3	5.4								
CYANIDE	200	730	200	NA	QN	NA	S	NA	Q.	NA	QN	NA	QN	NA	QN	NA	S
Notes:																	

Notes:

ug/i - micrograms per liter

NCA - No Criteria Available

NA - Not Analyzed

NA - Not Detected

ND -

Table 10 Summary of Private Well Analydical Results Procino Plating (DE-0344) Blades, Delaware

111 4/28/2011 5/1 114 4/28/2011 5/1 11 4/28 8/2011 5/1 11 1/2 8/20 8/20 8/20 8/20 8/20 8/20 8/20 8/	Location - Numbers Correspond to Figure 1.	orrespond to Figure 15				2	2	4	S	9	-	7	ao.	6,	10	n		12	13	14	15	16	17	18	19	50
Single-like	Address			SYCH-MAY PTING M		Shares well with		Schleger been P	Vacant		SET MOCINE THAN				on Ajdiu	Brillians Printy IX		Not	SY CT- MAY FTONG TO	3		acant		je išanos iznog iš		
Control Cont	Sample Date			5/19/2010	转体物料	特殊林林林林	林 花	4/28/2011	4/28/2017	F\$10102/E1187	F. 1.102/82/P	vzayzuri,	. J.U.07/9Z/b.		/28/2011 4	* 林井林井井	2/5 ####		١	8/2011 4/2	J		8/2011 4/	+	-	0102/61
C 15 C C C C C C C C C	Unit			/bn	no/1	/bn	/bn	/bn	l/On	ng/j	l/bn	/gn	l/on	1/00	65	1/01					_		1/07			,/g
10 10 10 10 10 10 10 10																				ļ						1
1											£73	e Metals by	· Method 200	80												
10 10 10 10 10 10 11 11	ANTIMONY 6	35	9	QN	QX	£	QN	8	S#S	g	ð	QN	Q		SN	-	£	H	H	ND	NS	-	S S	-	P P	S
2000 2300 250 2417 27845 NS 2525 6447 NS 6457 NS NS NS NS NS NS NS N		Ľ	0.50	Q.	QX	NS	Q.	S	S\$	S	Š	£	QN	SS	NS	H	QN	L	H	Q	NS	-	2	-	g g	Q
1			260	241.7	274.5	SS	525	64.2	WS.	769.2	847.8	422.1	76.7	NS	NS	H	136.1	_	-	28.9	MS	H	31.4		9.8	\$ 10
1			4	0.7	1.7	ž	0.5	QN.	SN	4.0	3.8	8.0	0.7	SN	NS.	ļ.,	C.N.	Ļ	-	ON ON	SN	-	0.5	_	QN QN	8.0
1 150 144 140 151	_	Ш	2	1.6	QN	SN	QN	GN	NS.	0.5	0.5	QΝ	QN	NS	NS	H	ą	-	H	QN	NS	H	QR.		Q	õ
The color The			81	3.1	2.3	SN.	1.3	3.1	NS	2.3	1.6	4.1	24.2	SN	MS	L	6.2	L	H	1.2	S	-	3.5	_	3.1	8,2
F. Story			15	3.2	1.8	SK	9.0	3.8	SS	8.9	3.0	9.0	1.9	SN	NS	Н	NO.	L	H	2.9	SN	H	2.1	-	NO.	2.7
No. 100 150			50	146.9	82.3	SNS.	97.7	5.7	33	169,9	190,6	202.3	93.0	NS	NS NS	Ш	6/12	_	_	40.8	SN		65.3	-	3.6	237.8
2 11 2 2 ND NO			100	5.9	7.1	32	4.6	9.0	NS	10.9	11.2	6.1	76.5	SS	NS	-	2.0	H	-	2.5	NS	H	5.1		1.7	13.4
59 180 50 ND ND ND ND ND ND ND N			7	QN	Q¥	Š	QN	QN.	NS	QN	QW QW	S	1.0	SN.	SN	ļ.,	Ş	ļ.,	H	NO.	SN	-	£		Q	Q
2 0.37 2 0.38 ND NO NS ND NS		_	05	ON.	S	NS	QV	Ş	NS	QN ON	ΝĐ	Q	QN	NS	SN	-	NO	_	-	Q.	NS	H	g	_	Ş	Ş
4 350 110 11 ND NO NO NO NO NO NO NO		-	7	GN	ON	NS	ON	ON	NS	GN	NO	ND	QN	NS	SN	-	ON			ND	NS		Q.	_	GN	NO.
S000* 11000 2000 68950 34-6 NS 42.2 ND NS 1360 143.6 23.3 12.2 NS NS 21.1 24.9 NS ND 30.3 NS NS NS ND ND ND ND NS NS		لب	11	NO.	Q.	SN	QV	O _X	44S	ON ON	S _N	NO.	GN	Z.	SK	H	2			S.	SN.	_	ON		QN	ON
Cycropide Bar Meditoria Control of the control of t	ZINC		2000	6950	364.6	SN	42.2	QN	NS	1360	1426.5	23.3	17.2	NS	NS	١.	24.9	_	H	30.3	NS		46.4		Ğ.	35.7
200 730 200 ND ND ND ND ND ND ND											Ø.	rande to M	emost 2335.													
Wolding Chapter Chapte			200	QN	G.	SN	GN	GN	NS	GR.	QZ QZ	G#	2	S	SN	Q.	QW QW	Z.	Q	CN CN	NS.	NS.	QX.	9	 2	Q
NO NA NS NA NS ND NA NA NA NS NA											volatile Orc	GINC COMPA	Surple Dy Mel	thod 524.2												
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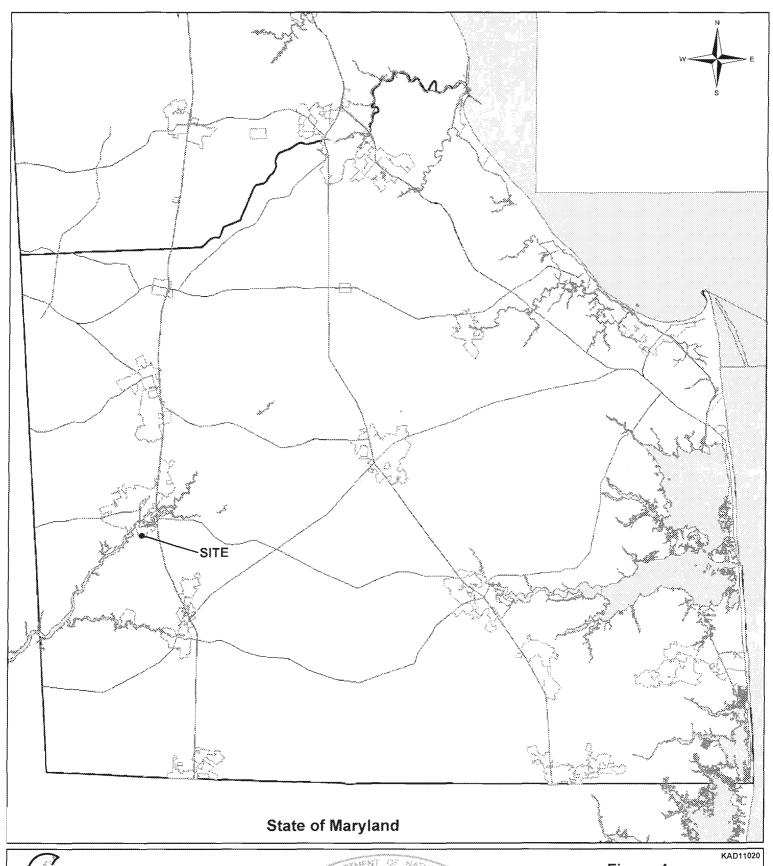
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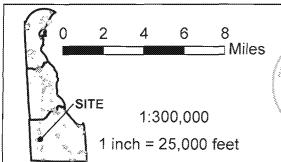
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FIGURES

Procino Plating DE-0344



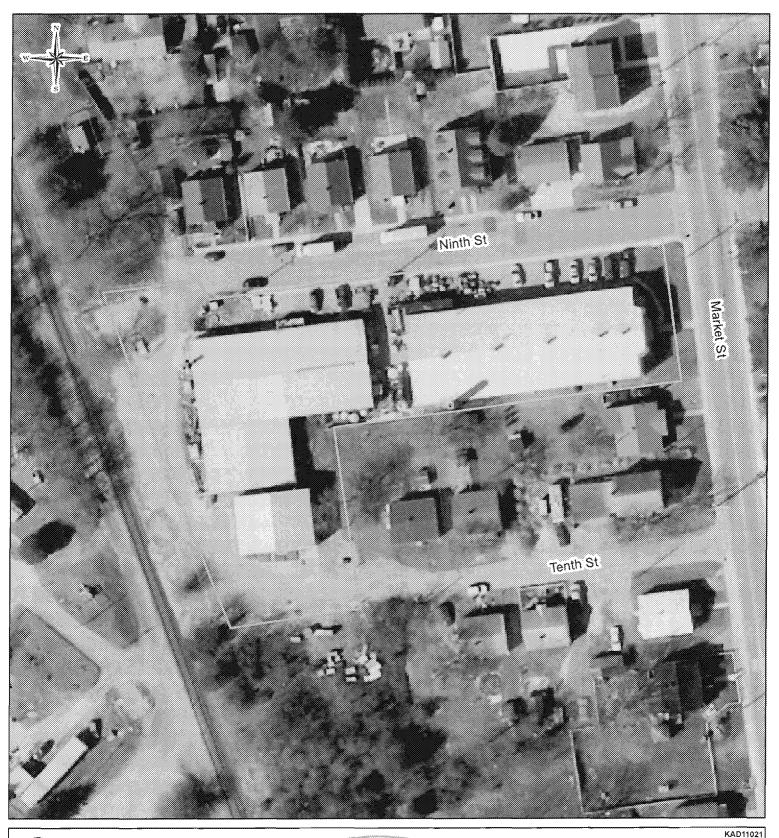


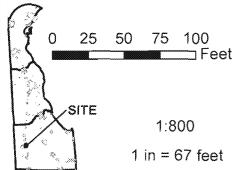
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Figure 1 Location of Procino Plating (DE-0344) in Sussex County, Delaware

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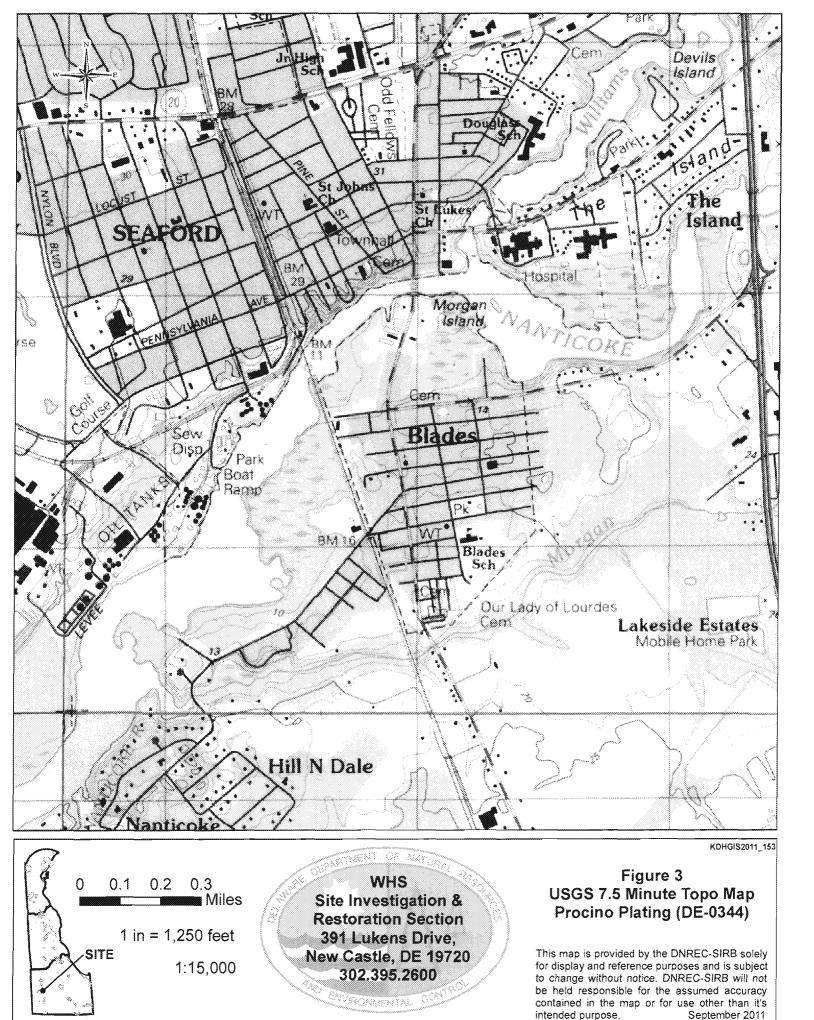
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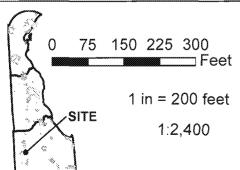
Figure 2 Site Features Map Procino Plating (DE-0344) Blades, Delaware

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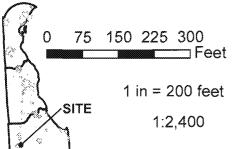
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Figure 4 1937 Aerial Photograph Procino Plating (DE-0344)

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Figure 5 1954 Aerial Photograph Procino Plating (DE-0344)

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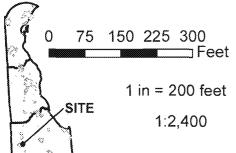
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Figure 6 1961 Aerial Photograph Procino Plating (DE-0344)

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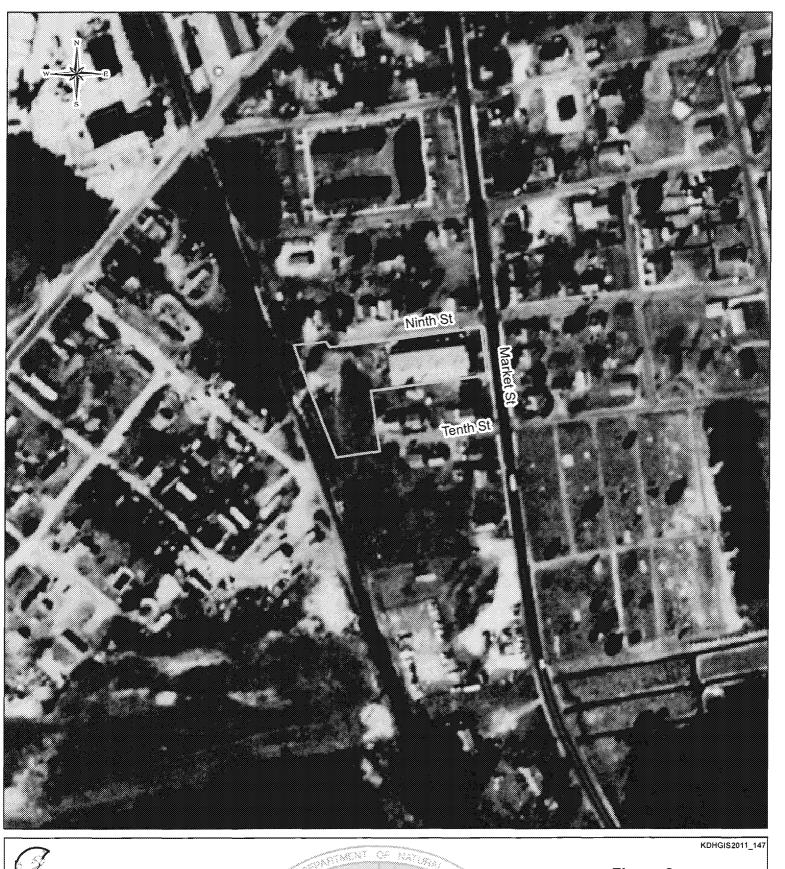
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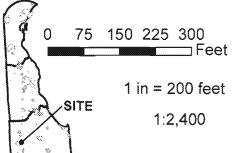




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Figure 7 1968 Aerial Photograph Procino Plating (DE-0344)



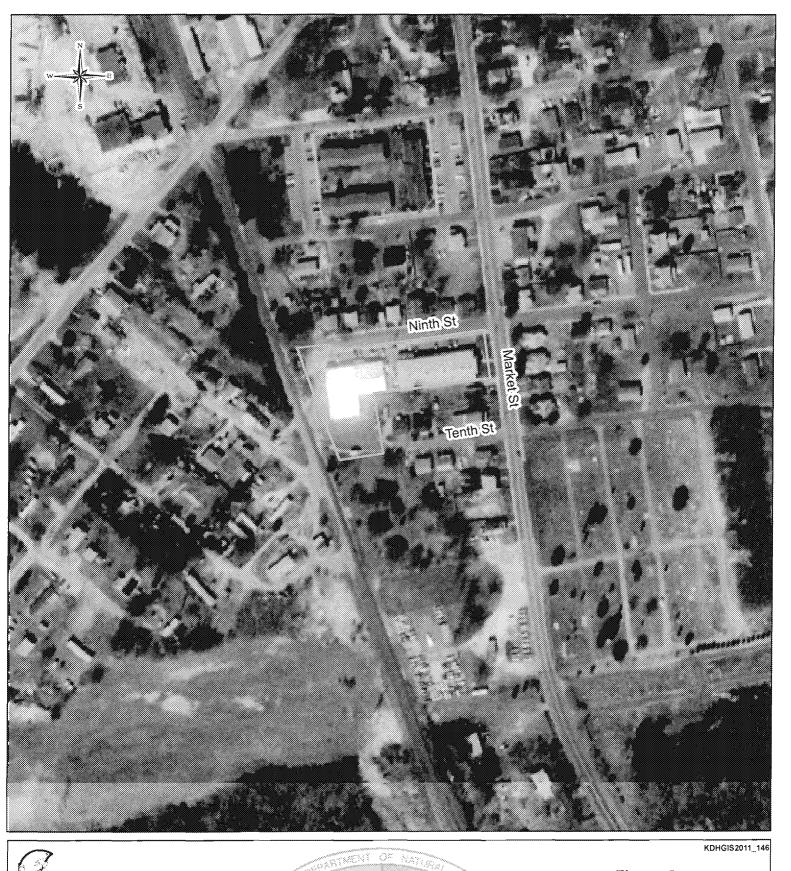


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Figure 8

1992 Aerial Photograph Procino Plating (DE-0344)

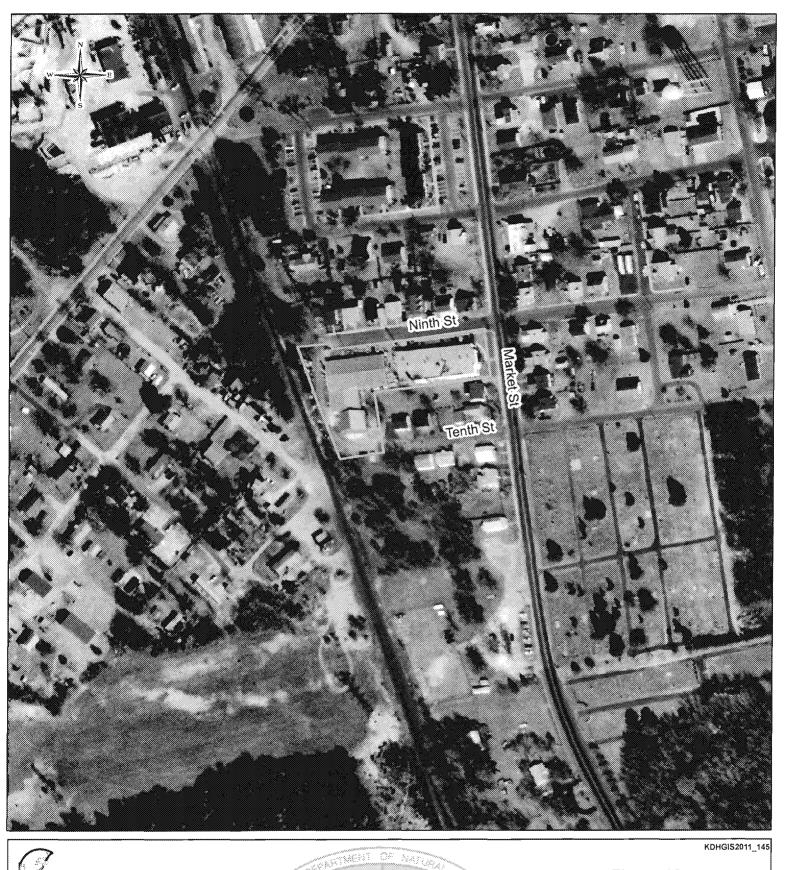


0 75 150 225 300 Feet 1 in = 200 feet site 1:2,400

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Figure 9 1997 Aerial Photograph Procino Plating (DE-0344)



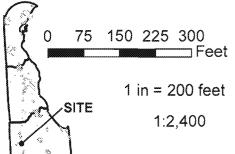
0 75 150 225 300 Feet 1 in = 200 feet SITE 1:2,400

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Figure 10 2002 Aerial Photograph Procino Plating (DE-0344)

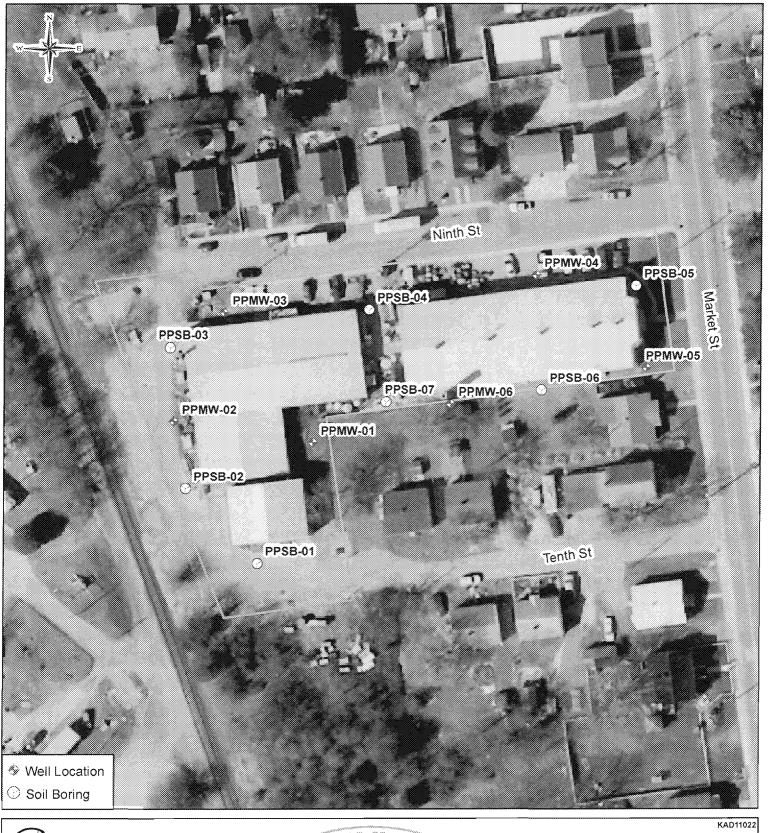




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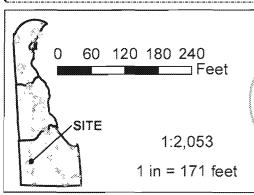
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Figure 11 2007 Aerial Photograph Procino Plating (DE-0344)





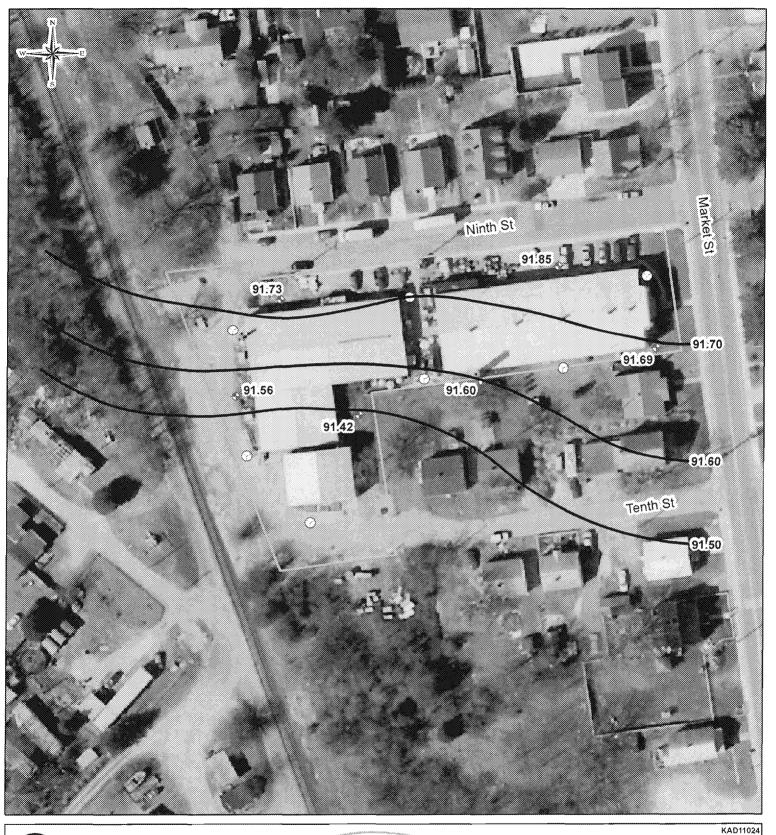
Ex. 9 Wells & Ex. 6 Personal Privacy

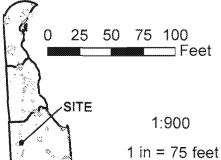


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Figure 13 Private Well Sampling Locations Procino Plating (DE-0344)





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SYMONMENTAL 69

Figure 14 Groundwater Elevation Contour Map - 5/24/11 Procino Plating (DE-0344)

APPENDICES

Procino Plating DE-0344

APPENDIX A PARCEL TITLE SEARCH

Procino Plating DE-0344

Tax Parcel Numbers:

132-1.15-187.00 and 132-1.15-188.00

Purchase Date	Sale Date	Owners
	Parcel 132-1.15	-187.00
4/11/2011	-	Four Pros Properties, LLC
5/3/1996	4/11/2011	Patrick and Rita Procino
6/23/1988	5/3/1996	HMS Blades, Limited
-	6/23/1988	Ex. 6 Personal Privacy (PP)
	Parcel 132-1.15	-188.00
4/11/2011	-	Four Pros Properties, LLC
7/16/1996	4/11/2011	Fig. 6 Degree and Drive av. (DD)
-	7/16/1996	Ex. 6 Personal Privacy (PP)

APPENDIX B SOIL BORING LOGS

Procino Plating DE-0344

Boring	ID: PPS	B-01	Logger: KAD	Geolog	ist: JGC	Date: 0	05/24/11	Page	of
Site Nai	ne: Pro	cino Pla	ting	Wea	ther: Sunny	, breeze, v	varm, humid		
DNREC	C ID: DE	E-0344	Driller: Vironex						
***********	, : PP-SE		Sample Interval 1.2-3.2 Time	e: 12:50	Deep PF Sample:	P-SB-01D	Sample 8.35- Interval 9.25	Time:	12:55
Core# PID	Start Depth	End Depth		-	Description			0000000-100 ⁰⁰⁰⁰ 00000000000000000000000	Moisture/ H ₂ O
1	0	0.8	No Recovery						
PID=0	0.8	1.2	Asphalt crumbles and gr	avel					Dry
	1.2	1.85	Brown MG Sand						Dry
	1.85	2.35	Dark. Brown to Black F	G to MG S	Sand				Dry
	2.35	5.0	Tan and Light Brown FO	G to MG S	and, Trace	Silt and Tr	ace Organic		Dry
2	5.0	7.3	No Recovery						
PID=0	7.3	8.35	Fallback		**************************************				Dry
	8.35	9.25	Tan and Brown Mottled	FG to MC	Sand Sand				Dry
	9.25	10.0	Laminated Tan and Brov	wn FG to I	MG Sand				Wet
w									
<u>.</u>							***************************************		
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Boring 1	D: PPS	B-02	Logger: JGC/KAD	Geolog	ist: JGC	Date: (05/24/11	Page	of_
Site Nar	ne: Pro	cino Pla	ıting	Wea	ther: Sunny,	light bre	eze, warm, hum	nid	
DNREC	ID: DE	E-0344	Driller: Virone	ex	00000				
Shallow Sample			Sample Interval 1.15-3.15	Deep PPSB-02D Sample 7.6- Interval 9.1 Time: Sample:					
Core#	Start Depth	End		00*************************************	Description	00000000000000000000000000000000000000			Moisture/ H ₂ O
1	0	0.7	No Recovery	······································				-90000000000000000000000000000000000000	
PID=0	0.7	1	Asphalt crumbles a	nd gravel					Dry
	1	1.9	Orange and Light E	Brown Fine Me	dium Sand –	Trace Si	lt		Dry
	1.9	2.7	Dark Brown and B	ack FG to MG	Sand				Dry
	2.7	5.0	Tan, Light Brown F	G to MG Sand	, TR. Organ	ic <u>(3.6 -3</u>	.9)		Dry
2	5.0	7.2	No Recovery						
PID=0	7.2	7.6	Fallback						Dry
	7.6	9.1	Tan, Light Brown F		, TR. Organ	ic (3.6 -3	.9)		Dry
	9.1	10.0	FG Tan and Light E	Brown Sand	***************************************				Wet
						-	w		
\									
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							9 <u></u>		

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							······································		
				MANAGET = ***********************************					
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	MANAGEMENT			70000000000000000000000000000000000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nnnnnnn/www.www.www.ww/00000	0000000****	***************************************	***************************************

Boring	ID: PPS	SB-03	Logger: KAD/JGC	Geolog	gist: JGC	Date:	05/24/11	Page	of	
Site Na	me: Pro	cino Pla	ting	Wea	ther: Sunny,	light bre	eze, warm, hun	nid		
DNREC	DID: D e	C-0344	Driller: Viro	nex						
Shallov			Sample 1.15 -	Time: 10:40		SB-03D	Sample 6.9- Interval 8.9	Time:	1 O . A E	
Core#	: PPSB Start	End	Interval 3.15							
PID		Depth			Description		%prosococococococoqoc=====================	××-000*********************************	Moisture/ H ₂ O	
1	0	0.9	No Recovery							
PID=0	0.9	1.25	Gravel and Gray A	Asphalt					Dry	
	1.25	1.6	Tan/Orange Medi	um Sand with T	race Silt				Dry	
	1.6	1.9	Dark Brown to Bl	ack Fine to Med	ium Sand		······································		Dry	
	1.9	2.1	Light Brown Fine	to Medium San	d with Grave]			Dry	
	2.1	2.45	Tan Fine to Mediu	ım Sand					Dry	
	2.45	2.95	Dark Brown to Bla	ack FG to MG S	and		,		Dry	
	2.95	5.0	Light Brown FG to	o MG Sand, Tra	ce Gravel		,		Dry	
2	5.0	6.1	No Recovery							
PID=0	6.1	6.7	Light Brown FG to	o MG Sand, Tra	ce Gravel				Dry	
	6.7	6.95	Black and Tan MO	G to CG Sand, T	race Gravel				Dry	
	6.95	8.9	Mottled Tan and L	ight Brown FG	to MG Sand				Dry	
	8.9	10.0	Mottled Tan and L	ight Brown FG	to MG Sand,	, Trace G	ravel		Wet	
										
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Boring II	D: PPSI	B-04		Logger: K	AD	Geolog	gist: JGC	**************************************	Date: ()5/26/11	Page	of
Site Nam	e: Proc	ino Pla	ting			We	ather: Su	nny, br	eeze, v	varm, humid		
DNREC	 ID: de	-0344		Driller: Viro	nex						7	
Shallow Sample:	***************************************		Samp Interv		Time:	09:42	Deep Samp	PPSB e:	5-04D	Sample 8.0- Interval 10.0	Time:	09:46
Core# PID	Start Depth	End Depth				GCCCCGCGCCCG	Descrip	ion				Moisture/ H ₂ O
1	0	1.1	No R	Lecovery								
PID=0.3@ 1.65' 3.6-hi otherwise PID=0	1.1	1.6		-	Light ar	nd Dark I	Brown S	lty San	ıd and (Gravel		Dry
	1.6	2.5	Mott	led Light and	l Dark E	Brown Si	lty FG/N	1G San	d, Trac	e Gravel	***********************	Dry
	2.5	2.95	Brow	n Silty FG/N	AG San	d, Trace	Clay				***************************************	Dry
	2.95	4.0	Mott	led Light and	l Dark E	Brown F	G/MG Sa	ınd, Gr	avel @	3.55'	***************************************	Dry
	4.0	4.15	Oran	ge and Brow	n FG/M	IG Sand				***************************************		Dry
	4.15	4.45	Dark	Brown FG/N	MG San	d				### <u>**********************************</u>		Dry
	4.45	5.0	Mottl	ed Tan and l	Brown I	FG/MG S	Sand				÷	Dry
2	5.0	7.0	No R	ecovery	****		· · · · · · · · · · · · · · · · · · ·	***************************************				
PID=0	7.0	7.3	Fall E	Back (PID H	T = 0.8	3)						Dry
	7.3	8.15	Mottl	ed Tan and I	Brown F	FG/MG s	and			AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		Dry
	8.15	10.0	Lami	nated Tan ar	d Brow	n FG/M	G Sand (Moist (@10')			Dry
3	10.0	11.7	No R	ecovery								
PID=0	11.7	12.2	Fall E	Back								
	12.2	1511		G/MG sand - 13.3'	, TR. He	eavy Mir	eral, Co	ncentra 	tion of	heavy minerals	s @ 	Wet
***************************************			***************************************		10000000000000000000000000000000000000			Waaaaaaaaaa~~iii	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Boring :	ID: PPS	SB-05	Logger: KAD Geologist: JGC Date: 05/25/11 Page	of
Site Nai	me: Pro	cino Pla	ting Weather: Sunny, It. breeze, warm, humid	
DNREC	C ID: Di	E-0344	Driller: Vironex	
Shallow Sample			Sample Deep PPSB-05D Sample 9-10 & Interval 2.2-4.2 Time: 10:29 Sample: Interval 11.3-12.3 Time	e: 10:42
Core# PID	Start Depth	End Depth	Description	Moisture/ H ₂ O
1	0	0.8	No Recovery	
PID=0	2.05	2.2	Grass and Topsoil	Dry
	2.2	2.7	Dark Brown Silty FG/MG Sand	Dry
	2.7	3.15	Light Brown FG/MG Sand	Dry
	3.15	3.4	Light Brown FG/MG Sand with Gravel and Pebbles	Dry
	3.4	3.55	Light Brown FG/MG Sand with Gravel and Pebbles 2.7 – 3.15	Dry
## #	3.55	3.7	Light to Dark Brown MG/CG Sand and Gravel	Dry
	3.7	4.2	Dark Brown FG/MG Sand	Dry
	4.2	5.0	Light Brown FG/MG Sand	Dry
2	5.0	6.75	No Recovery	
PID=0	6.75	7.15	Fall Back	Dry
	7.15 8.1		Light Brown to Orange FG/MG Sand, Trace Silt Laminated Tan and Orange FG/MG Sand with a few heavy mineral laminations	Dry Dry
3	10.0		No Recovery	
PID=0	10.5		Fallback (water @11-11.5)	
	11.3		Laminated Tan and Orange FG/MG Sand	Dry
	12.1		Light Brown Silty FG/MG Sand	Moist
	12.65	13.7	Tan FG/MG Sand, Silty Sand Lens (12.85-13.0)	Wet
	13.7	13.9	Tan MG/CG Sand	Wet
	13.9	15.0	Tan FG/MG Sand	Wet
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Boring 1	ID: PPS	B-06	Logger: KAD Geologist: JGC Date: 05/25/11 Page	of
Site Nar	ne: Pro	cino Pla	ting Weather: Sunny, lt. breeze, hot, humid	
DNREC	C ID: <b>DE</b>	C-0344	Driller: Vironex	
Shallow Sample			Sample Deep PPSB-06D Sample 8.0- Interval 3.0-5.0 Time: 13:30 Sample: Interval 10.0 Time:	13:36
Core# PID	Start Depth	End Depth	Description	Moisture/ H ₂ O
11	0	2.7	No Recovery	
PID=0	2.7	2.95	Grass and Topsoil	Dry
	2.95	4.5	Light and Dark Brown Silty FG/MG Sand, Roots	Dry
	4.5	5.0	Light Brown FG/MG Sand	Dry
2	5.0	6.9	No Recovery	
PID=0	6.9	7.15	Fallback	
	7.15	7.9	Orangish brown FG/MG Sand	Dry
	7.9	10.0	Laminated Tan and Brown FG/MG Sand, Trace Heavy Minerals	Dry
			Wet at 10'	
				2000

Boring I	D: PPS	B-07	Logge	r: KAD	Geolog	ist: JGC	Date: (	05/26/11	Page	of
Site Nar	ne: <b>Pro</b>	cino Pla	ting		Wea	ther: Sunny	, breeze, v	warm, humid		
DNREC	D: DE	E-0344	Driller:	Vironex						
Shallow Sample			Sample Interval 2.9-4	.9 Time	: 09:12	Deep PP Sample:	SB-07D	Sample 7.6- Interval 9.6	Time:	09:20
Core# PID	Start Depth	End Depth				Description			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Moisture/ H ₂ O
1	0	2.55	No Recovery						<b></b>	
PID=0	2.55	2.9	Dark Brown S	Silty Sand a	and Grave	l "topsoil"				Dry
***************************************	2.9	3.35	Light Brown	and Tan Sil	ty MG/C	G Sand				Dry
	3.35	4.5	Mottled light	and dark B	rown FG/	MG Sand, T	R. Grave	<u> </u>		Dry
	4.5	5.0	Laminated lig	ht and dark	Brown F	G/MG Sand	<u> </u>			Dry
2	5.0	6.8	No Recovery							
PID=0	6.8	7.25	Fall Back							Dry
	7.25	8.55	Mottled Light	and Dark	Brown FC	G/MG Sand				Dry
	8.55	10.0	Laminated Li	ght and Dai	rk Brown	FG/MG Sar	nd Moist (	@9.6'		Dry
3	10.0	11.1	No Recovery	(Wet @ 1	0')					
PID=0	11.1	11.6	Fallback							
	11.6	14.5	Tan FG/MG S	Sand, Heav	y Mineral	Lamination	S			Wet
	14.5	14.8	Tan FG/CG S	and, Trace	Gravel					Wet
	14.8	15.0	Tan FG/MG S	Sand						Wet
								WATER REPORT OF THE PARTY OF TH		
		<del></del>	Duplicate of F	PPSB-07D i	is PPSB-4	0D				
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Boring l	D: PPN	AW-01	I	Logger: K	AD	Geolog	ist: JGC	Date: (	)5/24/11	Page	of
Site Nar	ne: <b>Pro</b>	cino Pla	ting			Wea	ther: Sunny	, breezy, v	varm, humid	***************************************	
DNREC	DE ID: DE	C-0344	Dr	iller: Viro	nex						
Shallow Sample			Sample Interval	1.3-3.3	Time	Deep PPMW-01D Sample 7.65 e: 13:10 Sample: Interval 9.3				Time:	13:15
Core# PID	Start Depth	End Depth				***************************************	Description	00000000000000000000000000000000000000		*******************************	Moisture/ H ₂ O
1	0	1.2	No Rec	overy							
PID=0	1.2	1.3	Roots a	nd Topsoil							Dry
***************************************	1.3	2.95	Dark B	rown and I	Black S	ilty FG to	MG Sand	***************************************			Dry
***************************************	2.95	5.0	Mottled	l Tan and I	Light B	rown FG	to MG Sand	l, Trace O	rganics		Dry
2	5.0	7.3	No Rec	overy	********						
PID=0	7.3	7.65	Fallbac	k							Dry
	7.65	9.3	Mottled	Tan and E	Brown ]	FG to MC	Sand, Trac	e Organic	S		Dry
	9.3	10.0	Mostly	FG Sand, l	Mottled	d Tan and	Brown				Wet
3	10.0	13.2	No Rec	overy							
PID=0	13.2	15.0	Tan MO	G to CG Sa	ınd						Wet
4	15.0	18.6	No Rec	overy							
PID=0	18.6	19.2	Tan and	l Light Bro	wn FG	to MG S	and				Wet
	19.2	20.0	Tan MC	G to CG Sa	nd and	Quartz C	ravel				Wet
											488
			Set Wel	I @ 18'							
MANAGAR 40-00-00-00-00-00-00-00-00-00-00-00-00-0											
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Boring 1	ID: PPN	MW-02	Logger: JGC	Geolog	ist: JGC	Date: (	)5/24/11	Page	of
Site Na	me: <b>Pro</b>	cino Pla	ting	Wea	ther: Sunny	, breeze, v	varm, humid		
DNREC	C ID: <b>DI</b>	E-0344	Driller: Vironex	-					
Shallow	V		Sample	nnnn/000000000000000 ₃₂₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀₀	Deep PP1	MW-02D	Sample 7.2-		00000000
Sample	**********************	***************************************	Interval 1.3-3.3 Tin	ne: 11:00	Sample:	MARKO000000000000000000000000000000000000	Interval 9.2	Time:	
Core# PID	Start Depth	End Depth			Description	100000		олимполить: Дринологию полис	Moisture/ H ₂ O
1	0	0.9	No Recovery				AND to	- AR-	
PID=0	0.9	1.2	Asphalt crumbles and g						Dry
	1.2	1.7	Tan and Orange Silty F		um Sand				Dry
	1.7	2.1	Dark Brown Silty Fine	Sand					Dry
	2.1	2.65	Tan and Orange Silty F	ine to Med	ium Sand	***************************************		****	Dry
	2.65	3.1	Dark Brown Silty Fine	Sand		MANONE WAS TO SERVICE OF THE SERVICE			Dry
	3.1	5.0	Light Brown to Tan Fi	ne to Mediu	m Sand				Dry
2	5.0	6.8	No Recovery	- Albertania	<u></u>				
PID=0	6.8	7.0	Light Brown to Tan Fi	ne to Mediu	m Sand				Dry
	7.0	7.15	Dark Brown to Balck F	ine to Med	ium Sand ar	nd Trace G	ravel		Dry
**************	7.15	9.2	Mottled Tan and Brow	n Fine to M	edium Sanc				Dry
	9.2	10	Tan Fine Sand	***************************************					Wet
3	10.0	10.2	No Recovery			····		******	
PID=0	10.2	12.3	Fine Grained Tan sand	with Trace	Pebbles				Wet
	12.3	13.0	Medium to Course Gra	ined Tan Sa	and Peb	bles		mannessan - gyvnnessanassan	Wet
	13.0	13.7	Fine Grained Tan Sand	with Trace	Pebbles			***************************************	Wet
	13.7	15	Medium to Course Gra	ined Tan Sa	ınd with Tra	ice Pebble	S		Wet
4	_15	18.4	No Recovery						
PID=0	18.4	18.7	Tan and Orange Mediu	m to Course	e Sand				Wet
	18.7	18.95	Gray and Orange Clay						Dry
	18.95	19.15	Gray and Orange Medi	um to Cour	se Sand				Wet
	19.15	20	Gray and Orange Fine t	o Medium	Sand				Wet
				·					
			Set Well at 18'						
				- 220					
		***************************************							

Boring l	D: PPN	ЛW-03	Logger: MMP	Geologist: JGC	Date: 05/24/11	Page	of
Site Nar	ne: <b>Pro</b> c	cino Plat	ing	Weather: Sunny	, slight breeze, warm,	humid	
DNREC	C ID: <b>DE</b>	E-0344	Driller: Vironex				
Shallow Sample			Sample nterval 0-5 Time: (	<b>Deep</b> PPN 09:18 <b>Sample:</b>	AW-03D Sample 7.5 Interval 9.5		09:25
Core# PID	Start Depth	End Depth		Description			Moisture/ H ₂ O
1	0	2.2	No Recovery				
PID=0	2.2	4.25	Tan, Light Brown, Fine to	Medium Sand, Trac	ee Silt		Dry
	4.25	4.6	Laminate Light to Dark Br	own, Fine to Mediu	m Sand, Trace Silt		Dry
	4.6	5.0	Tan, Light Brown, Fine to	Medium Sand, Trac	e Silt		Dry
2	5.0	7.0	No Recovery			= = = ±500000000000000000000000000000000	
PID=0	7.0	9.5	Laminated/Varying Orang	e to Tan, Fine to Με	dium Sand		Dry
	9.5	10.0	Moist, Laminated/Varying	Orange to Tan, Fin-	e to Medium Sand, Ti	race Silt	Dry
3	10.0	11.1	No Recovery				
PID=0	11.1	13.0	Wet, Laminated/Varying C	Orange to Tan, Fine	to Medium Sand, Tra	ce Silt	Wet
	13.0	13.4	Wet, Tan, medium Gray Sa	and			Wet
	13.4	15.0	Wet, Medium to CG Sand,	Tan			Wet
4	15.0	17.7	No Recovery				
PID=0	17.7	18.2	Wet, Medium to CG Sand,	Tan			Wet
	18.2	18.7	Tan and Orange, Wet, MG	Sand, Large Quartz	Pebble @ 18.5		Wet
	18.7	18.8	Gray and Orange MG Sand	ly Clay			Moist
	18.8	19.0	Tan CG Sand				Wet
	19.0	19.2	Orange and Tan MG Sand,	Trace Silt			Wet
	19.2	20.0	Laminated Tan, Black, Dar	k Brown FG to MG	Sand		Wet
			Well Screened 8 – 18' bgs				
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							***************************************
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Boring 1	D: PPN	ЛW-04		Logger: KA	AD.	Geolog	ist: JGC	Date: 0	5/24/11	Page	of
Site Nar	ne: <b>Pro</b>	cino Pla	ting			Wea	ther: Sunny	, breeze, v	varm, humid		
DNREC	DID: DE	E-0344	Dr	iller: Viro	nex						
Shallow Sample			Sample Interval	1.2-3.2	Time:	: 12:50	Deep PP Sample:	-MW04D	Sample 8.35- Interval 9.25	Time:	12:55
Core# PID	Start Depth	End Depth	OG				Description				Moisture/ H ₂ O
1	0	2.0	No Rec	overy	***************************************				***************************************		
PID=0	2.0	2.35	Brown	Silty Sand	and Gr	avel				nonnonnon	Dry
	2.35	3.5	Mottled	l Tan and E	Brown I	FG/MG S	and				Dry
	3.5	4.05	Dark B	rown FG/N	AG San	ıd					Dry
	4.05	5.0	Mottled	l Tan and I	Light B	rown FG	to MG Sand	<u>1</u>	***************************************	AAA AAA AAA AAA AAA AAA AAA AAA AAA AA	Dry
2	5.0	6.5	No Rec	overy							
PID=0	6,5	6.7	Fallbacl	k		*****					Dry
	6.7	8.0	Light B	rown and (	Orange	FG/MG	Sand	·······		:	Dry
	8.0	10.0	Tan FG	/MG Sand	with R	andom O	range Lami	nation	***************************************	g	Dry
3	10.0	11.5	No Rec	overy ( wa	ter @10	0,)					
PID=0	11.5	12.0	Fallbacl								Damp
	12.0	13.8		ted Tan an tion@13.5		: Brown F	G/MG San	d Heavy M	Iineral		Wet
	13.8	14.8	Tan FG	/MG Sand							Wet
	14.8	15.0	Tan MC	G/CG Sand							Wet
4	15.0	18.35	No Rec	overy		,					
PID=0	18.35	19.45	Tan M	G to CG S	and, Tr	ace Pebbl	es	***************************************			Wet
	19.45	19.7	Tan FG	to MG Sai	nd						Wet
	19.7	20.0	Tan and	Orange M	IG/CG	Sand					Wet
	SHOE @20.0		Orange	and Grey S	Silty Cl	ay					Wet
			Wall Ca	t @ 10?							
			Well Se	ι ( <u>ω</u> 18		<b>AAC</b>					
					<b></b>						

Boring I	D: PPN	AW-05	Logger: KAD Geologist: JGC Date: 05/25/11 Page	of
Site Nar	ne: <b>Pro</b> c	cino Pla	ting Weather: Sunny, light breeze, warm, humid	
DNREC	D: DE	C-0344	Driller: Vironex	
Shallow Sample:			Sample 9.0-10   Deep PPMW-05D Interval & Time: 11:00   Sample: 11.4-12.4   Time:	11:09
Core# PID	Start Depth	End Depth	Description	Moisture/ H ₂ O
1	0	2.25	No Recovery	
PID=0	2.25	2.55	Silty FG/MG Sand/Topsoil	Dry
	2.55	3.3	Mottled Light and Dark Brown FG/MG Sand	Dry
	3.3	3.95	Tan and Light Brown FG/MG Sand	Dry
	3.95	5.0	Orangish Brown FG/MG Sand	Dry
2	5.0	6.5	No Recovery	
PID=0	6.5	6.9	Fallback	Dry
***************************************	6.9	8.35	Mottled Tan and Brown FG/MG Sand	Dry
	8.35	10.0	Laminated Tan and Brown FG/MG Sand	Dry
3	10.0	10.6	No Recovery	
PID=0	10.6	11.4	Fallback (Water @ 12-12.5)	
	11.4	12.55	Mottled Tan and Brown MG/CG Sand	Dry
	12.55	13.3	Mottled Tan and Brown MG/CG Sand	Wet
	13.3	15.0	Tan FG/MG Sand with Heavy Mineral Laminations	Wet
4	15.0	17.5	No Recovery	·
PID=0	17.5	18.15	Tan FG/MG Sand	Wet
	18.15	18.5	Orangish Brown and Tan FG/MG Sand, Trace Pebbles @ Bottom	Wet
	18.5	20.0	Tan MG/VCG Sand, Trace Gravel	Wet
				~
	······································		Well Set @ 19'	•

Boring	ID: PPN	AW-06	Logger: KAD Geologist: JGC Date: 05/25/11 Page	of
Site Na	me: <b>Pro</b>	cino Pla	Weather: Sunny, light breeze, warm, humid	
DNREC	C ID: <b>D</b> F	E-0344	Driller: Vironex	
Shallow	¥		Sample Deep PPMW-06D Sample 8.0-	***************************************
000000000000000000000000000000000000000	: PPMW	_	Interval 3.25-5.0 Time: 12:25 Sample: Interval 10.0 Time:	
Core# PID	Start Depth	End Depth	Description	Moisture/ H ₂ O
1	0	3.1	No Recovery	
PID=0	3.1	3.25	Topsoil and Roots	Dry
	3.25	4.35	Mottled Tan, Light and Dark Brown FG/MG Sand, Trace Organics	Dry
	4.35	5.0	Laminated Tan, Light and Dark FG/MG Sand	Dry
2	5.0	7.15	No Recovery	
PID=0	7.15	7.55	Fallback	
	7.55	8.2	Tan and Orangist Brown FG/MG Sand, Trace Silt	Dry
	8.2	9.0	Mottled Tan and Light Brown FG/MG Sand	Dry
	9.0	10.0	Laminated Tan and Light Brown FG/MG Sand – Moist @ 10!	Dry
3	10.0	10.75	No Recovery	
PID=0	10.75	11.8	Fallback	
	11.8	12.7	Tan FG/MG Sand	Wet
	12.7	14.2	Mottled Tan and Brown FG/MG Sand, Trace Gravel	Wet
	14.2	14.75	Tan FG/MG Sand, Trace Silt	Wet
	14.75	15.0	Laminated Brown and Tan FG/MG Sand	Wet
4	15.0	17.85	No Recovery	
PID=0	17.85	19.65	Tan MG/CG Sand with Trace Gravel, 2 Gravel lenses	Wet
			@18.45-18.7 and 19.1 – 19.35	
	19.65	19.7	Orange Silty MG Sand	Wet
	19.7	20.0	Mottled Grey and Orange Silty Clay with Trace FG Sand	Wet
			Well Set @ 18'	
OUROSIOCHUS SALANS SALA				

### APPENDIX C WELL DEVELOPMENT FIELD LOGS

Procino Plating DE-0344

Site Name: Procino Plating Site No.: DE - 0344 MW-01 Well No .: Sample No.: 5/26/11 KAS/MMP/KAD Date: Samplers: Sunny/Hot/Humid Sample Weather: Time: No Sampling – Developing Well Comments: Start Time (a) 1202pm WELL OBSERVATIONS (Y/N)Flush Mount: Locked: (Y/N)Stick Up: N (Y/N)PID: (PPM) 1" Well Diameter: (Inches) NAPL: (Y/N)//(Inches)Good/New Condition of Casing: Good/New Condition of Pad: Comments: FIELD MEASUREMENTS Depth to Bottom: Ft. A. 17.87 В. Depth to H₂O: 8.58 Ft. @ 1200 C. 9.29  $H_2O$  Column Height: (A - B)Ft. Purge Method Used: D. 3 Well Volumes or Parameter Parameter Stabilization Stabilization (Inches)² Well Factor: 0.041 x (Well Diameter)² E. GPF (from sheet) F. One Well Volume: (C x D) G. No. Volumes to be Purged: 3 Total Volume to be Purged: (F x G) Gallons H. I. Actual Volume Purged to Stabilization: Gallons COND TURB DO Time pHTEMP SAL Comments (mS/cm) (NTU) (mg/l)('C) (%)Turbidity Meter Malfunction 1205 6.59 0.088 13.31 18.0 1213 6.83 0.085 13.02 18.1 Turbidity Based on Visual 1223 6.86 0.084 12.05 18.7 Clarity 19.0 1231 6.35 0.089 11.82 1242 6.44 0.085 12.05 18.7 END OF DEVELOPMENT

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APPROXIMATELY 5 GALLONS PURGED

Site Name: Procino Plating Site No.: DE - 0344 Well No .: MW02 Sample No.: 5/26/11 KAD/KAS/MMP Date: Samplers: Sunny/Hot/Humid Weather: Sample Time: No Sample – Developing Well, Start at 1115 Comments: WELL OBSERVATIONS Flush Mount: Y (Y/N)(Y/N)Locked: (Y/N)Stick Up: PID: (PPM) 1" (Inches) Well Diameter: NAPL: (Y/N)//(Inches) New/Good Condition of Casing: Condition of Pad: New/Good Comments: FIELD MEASUREMENTS Ft. Depth to Bottom: 18.45 A. Ft. @ 1109 am B. Depth to H₂O: 8.30 C. H₂O Column Height: (A – B) 10.15 Ft. Purge Method Used: D. 3 Well Volumes or Parameter Parameter Stabilization Stabilization (Inches)² Well Factor: 0.041 x (Well Diameter)² E. F. One Well Volume: (C x D) GPF (from sheet) G. No. Volumes to be Purged: 3 Total Volume to be Purged: (F x G) Gallons Η. I. Actual Volume Purged to Stabilization: Gallons TURB DO Time pH**COND** TEMP SAL Comments (mS/cm) (NTU) (mg/l)(%)('C) Turbidity Meter Malfunction 1115 5.55 0.229 12.01 18.5 1125 5.61 0.164 18.5 11.52 Turbidity Based on Visual 1130 5.65 11.70 18.8 0.158 Clear/Clarity 1135 5.61 0.158 11.84 18.9 19.2 1140 5.98 0.167 11.80 END OF DEVELOPMENT

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APPROXIMATELY 4.5 GALLONS PURGED

Site Na	me:	Procin	o Plating		Si	te No.:	DE -0344	
Well No	).:	MW-0	3		Sa	imple No.:	- KAD/SAS/MMP	
Date:		5/26/1	1		Sa	implers:		
Weathe	r:	Sunny/	Hot/Hum	id	Sa	ımple		
		MANAGEMENT AND			~~~~~~	me:	_	
Comme	ents:	Start T	ime: 1026	am				
		No Sar	nple – De	veloping '	Well			
				WELL O		TIONS		
				, , , , , , , , , , , , , , , , , , , ,		~~~		
Flush M	Iount:		Y	(Y/N	) L	ocked:	Y (Y/N)	
Stick U	p:		N	(Y/N	) P	ID:	- (PPM)	
Well Di	•	••	1"	(Inch	*	APL:	- (Y/N)//(Inches)	
Conditi	on of C	Casing:	New/G		,			
Conditi		_	New/G	Good		an		
Comme								
			,					
				FIELD N	/IEASURI	EMENTS		
A. D	epth to	Bottom:				17.8	Ft.	
B. D	epth to	H ₂ O:				9.5	Ft. @ 1020 am	
	-	lumn Heigl	ht: (A – B	)		8.3	Ft.	
		lethod Use		,				
	Ü	3 Well V	Volumes or	r	P	arameter		
		Parameter	Stabilizat	ion	Sta	abilization		
E. W	Vell Fac	ctor: 0.041	x (Well D	iameter) ²			(Inches) ²	
F. O	ne Wel	ll Volume:	$(C \times D)$			-	GPF (from sheet)	
G. N	o. Volu	imes to be	Purged:			3		
н. т	otal Vo	lume to be	Purged:	(F x G)		shart .	Gallons	
I. A	ctual V	olume Pur	rged to St	abilizatio	n:		Gallons	
Time	pН	COND	TURB	DO	TEMP	SAL	Comments	
1.5		(mS/cm)	(NTU)	(mg/l)	(+C)	(%)		
1027	8.2	0.350		11.5	20.6	<del></del>	- Turbidity Meter Malfunction	
1037	6.9	0.164		11.9	19.5	0.0		
1047	6.0	0.150	_	11.45	19.1	0.0	- Turbidity Based on Visual	
1057	5.6	0.145		10.94	19.5		Clear /Clarity	
			D #7 F7 V F7			1		
	Ţ	END O	F DEVEL	OPMENT	<u> </u>	<del></del>		
	1 777	O 7 7 7 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	* * * * * *	ATTONYO	DIMOT	<u> </u>		
	APPR	OXIMATE	LY 4.5 G	ALLONS	PURGEL	)		
	ļ	,						

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Site Nar Well No Date: Weathe	r:	MW-04 5/26/11 Sunny/I	Hot/Humio		Sar Sar Sar Tin	e No.: nple No.: nplers: nple ne:	DE -0344 - SIRS
			V	VELL OF	BSERVAT	IONS	
Flush M Stick Up Well Dis Condition Condition	o: ameter: on of Ca on of Pa	asing:	Y N 1" Good/N Good/N		PII	cked: D: .PL:	Y (Y/N) - (PPM) - (Y/N)//(Inches)
			I	FIELD M	EASURE	MENTS	
B. Do	epth to 20 Colu	umn Heigh				17.79 11.56 6.23	_ Ft. _ Ft. @ 1400 _ Ft.
E. W	ell Fac	ethod Used 3 Well Vo Parameter S tor: 0.041 x I Volume: (	olumes or Stabilizatio : (Well Di	-		rameter oilization -	_ _ (Inches) ² _ GPF (from sheet)
G. No H. To	o. Volu otal Vol	mes to be P lume to be olume Purg	'urged: Purged: (	,	1:	3	Gallons Gallons
Time	pH	COND (mS/cm)	TURB (NTU)	<b>DO</b> (mg/ <i>l</i> )	TEMP ('C)	SAL (%)	Comments
1405	6.67	0.277	- (1410)	13.26	19.6	0	Turbidity Meter
1410	6.90	0.212	_	12.38	19.4	0	Malfunction
1415	6.70	0.208		12.33	19.3	0	Turbidity Based
1420	6.56	0.214	-	11.89	19.0	0	On Clarity
1430	6.76	0.218	-	12.06	19.2	0	
		END O	DEVEL	OPMENT			
					¥		
	APP	ROXIMAT	E 3.5 GA	LLONS P	<u>URGED</u>	<del></del> -	
					Wiles		
						-	
<b></b>						-	

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Site Name: Procino Plating Site No.: DE -0344 Well No .: MW-05 Sample No.: Date: 5/26/11 Samplers: **SIRS** Weather: Sunny/Hot/Humid Sample Time: No Sampling – Developing Well Comments: Start @, 1332 WELL OBSERVATIONS Flush Mount: Y (Y/N)Locked: (Y/N)Ν (Y/N)Stick Up: PID: (PPM) 1" (Y/N)//(Inches) Well Diameter: (Inches) NAPL: Condition of Casing: Good/New Condition of Pad: Good/New Comments: FIELD MEASUREMENTS Depth to Bottom: 18.34 Ft. A. 16.18 Ft. @ 1332 В. Depth to H₂O: C. H₂O Column Height: (A – B) 7.16 Ft. Purge Method Used: D. 3 Well Volumes or Parameter Parameter Stabilization Stabilization (Inches)² E. Well Factor: 0.041 x (Well Diameter)² F. One Well Volume: (C x D) GPF (from sheet) G. No. Volumes to be Purged: 3 Η. Total Volume to be Purged: (F x G) Gallons I. Actual Volume Purged to Stabilization: Gallons Time pH**COND** TURB DO **TEMP** Comments SAL (mS/cm) (NTU) (mg/l)('C) (%)1335 13.34 Turbidity Meter Malfunction 6.26 0.284 18.8 1340 6.43 0.249 12.68 18.8 Turbidity Based on Visual 1345 6.66 0.236 12.48 18.7 Clear/Clarity 1350 0.229 12.57 19.0 6.64 1355 6.69 0.215 12.52 19.0 END OF DEVELOPMENT

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APPROXIMATELY 3 GALLONS PURGED

Site Nam Well No. Date: Weather	5 9	MW-06 5/26/11 Sunny/I	Hot/Humic		Sa   Sa   Sa   Ti	ite No.: ample No amplers: ample ime:	DE - 0344
			V	VELL OF	BSERVAT	IONS	
Flush Mo Stick Up Well Dia Condition Condition	: meter: n of Ca n of Pa	_	Y N 1" Good/N Good/N	·	PII	cked: D: APL:	Y (Y/N) - (PPM) - (Y/N)//(Inches)
			I	TIELD M	EASURE	MENTS	
B. De C. H ₂ D. Pu  E. We F. On G. No H. To	pth to Do Colurge Meell Fact ell Fact e Well Volur	ımn Heigh ethod Used	t: (A – B) : clumes or Stabilization ( (Well Di C x D) Curged: Purged: (	on ameter) ² F x G)	Pa Stat	17.74 10.43 7.31 rameter bilization	Ft. Ft. @ 1250 Ft.  (Inches) ² GPF (from sheet)  Gallons Gallons
Time	pH	COND	TURB	DO	TEMP	SAL	Comments
1255	6.58	(mS/cm) 0.292	(NTU)	(mg/ <i>l</i> ) 13.92	(†C) 19.9	(%)	Turbidity Meter Malfunction
1303	6.80	0.292		13.83	18.7		Turbidity Nictor Maitunetion
1308 1313 1318	6.61 6.13 6.05	0.202 0.184 0.177		12.90 12.90 12.03	18.1 17.9 17.9		Turbidity Based on Visual Clear/Clarity
1323	6.00	0.177		12.03	18.1		
			DEVELO	OPMENT			

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### APPENDIX D GROUNDWATER SAMPLING FIELD LOGS

Procino Plating DE-0344

Site Name: Procino Plating Site No.: DE - 0344 MW-01 PPMW09 Well No .: Sample No.: Date: 6/16/11 Samplers: LGJ & KAS Weather: Sunny - cloudy Sample Time: 1330 Comments: WELL OBSERVATIONS Y (Y/N)(Y/N)Flush Mount: Locked: N (Y/N)(PPM) Stick Up: PID: 1" Well Diameter: (Inches) NAPL: No (Y/N)//(Inches) Good **Condition of Casing:** Condition of Pad: Good Water very cloudy white purging Comments: FIELD MEASUREMENTS Ft. A. Depth to Bottom: В. Depth to H₂O: 8.80 Ft. C. H₂O Column Height: (A – B) Ft. D. Purge Method Used: 3 Well Volumes or Parameter Parameter Stabilization Stabilization (Inches)² Well Factor: 0.041 x (Well Diameter)² E. One Well Volume: (C x D) F. GPF (from sheet) G. No. Volumes to be Purged: 3 Gallons Total Volume to be Purged: (F x G) H. Actual Volume Purged to Stabilization: 3 I. Gallons COND **TURB** DO TEMP Time pH SAL Comments (mS/cm) (NTU) (mg/l)('C) (%) 6.72 1300 0.078 16.25 18.1 1305 6.36 0.065 15.58 17.4 1310 6.33 0.077 15.06 17.1 1315 6.28 0.082 14.16 17.1 1320 0.083 13.92 16.6 6.18 1325 6.05 0.085 13.48 16.7 0.091 18.5 1523 6.15 14.41

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Site Nam Well No. Date: Weather Commen	x 0	MW-0 6/16/1		,	Site No Sample Sample Sample Time:	No.:	DE -0344 PPMW02 KAS & JGC
			V	VELL OB	SERVATI	ONS	
Flush Mo Stick Up Well Dia Condition Condition Commen	: meter: n of Ca n of Pa	asing:	Y N I" Good Good	(Y/N) (Y/N) (Inches	PIE		Y (Y/N) - (PPM) N (Y/N)//(Inches)
			]	FIELD MI	EASUREM	IENTS	
B. De	pth to	Bottom: H ₂ O: ımn Heigh	t: (A – B)			- 3.52 -	Ft. Ft. Ft.
E. We	ell Fac	Parameter L tor: 0.041 x	olumes or Stabilizati k (Well Di	-		ameter ilization	(Inches) ²
1		Volume: ( mes to be P				3	GPF (from sheet)
l .		ume to be olume Purg			: 2.	5 - 3	Gallons Gallons
Time	pН	COND (mS/cm)	TURB (NTU)	<b>DO</b> (mg/ <i>l</i> )	TEMP ('C)	SAL (%)	Comments
1143	6.44	0.178	-	12.71	19.3	- (/0)	
1150	6.55	0.168		12.35	19.6		
1155	6.48	0.169		12.31	18.1	_	
1200	6.49	0.169		12.33	18.6	-	
1205	6.53	0.174		12.66	19.5		

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Site Name: Procino Plating Site No.: DE -0344 MW-03 Sample No.: PPMW03 Well No .: 06/16/11 KAS & JGC Date: Samplers: Overcast 75° Weather: Sample Time: 1015 Comments: WELL OBSERVATIONS (Y/N)Y (Y/N)Flush Mount: Locked: Y N (Y/N)(PPM) Stick Up: PID: 1 " N Well Diameter: (Inches) NAPL: (Y/N)//(Inches) **Condition of Casing:** Good Condition of Pad: Good MS/MSD Collected Comments: FIELD MEASUREMENTS Depth to Bottom: Ft. A. В. Depth to H2O: 9.78 Ft. C. H₂O Column Height: (A – B) Ft. Purge Method Used: D. 3 Well Volumes or Parameter Parameter Stabilization Stabilization (Inches)² Well Factor: 0.041 x (Well Diameter)² E. GPF (from sheet) One Well Volume: (C x D) F.

Time	pН	COND	TURB	DO (ma/l)	TEMP	SAL	Comments
0045	6.00	(mS/cm)	(NTU)	(mg/l)	('C)	(%)	
0945	6.03	0.141		9.46	18.5		
0950	5.87	0.138		8.85	17.8		
0955	5.80	0.137		8.37	17.6	-	
1000	5.71	0.137		8.41	17.4	_	
1005	5.59	0.137		8.35	17.4	_	
1010	5.53	0.137		8.15	17.4		
1125	5.89	0.137	_	11.14	19.5		Purge rate was increased during sampling of PEST/PCB note for elevated DO

3

<u>-</u>

Gallons

Gallons

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No. Volumes to be Purged:

Total Volume to be Purged: (F x G)

Actual Volume Purged to Stabilization:

G.

H.

1

Site Name: Procino Plating Site No.: DE -0344 Well No .: MW-04 PPMW04 Sample No.: 6/16/11 Date: Samplers: KAS & JGC Weather: Overcast 75° Sample Time: 0845 Comments:

#### WELL OBSERVATIONS

Flush Mount: (Y/N)Locked: Y (Y/N)N Stick Up: (Y/N)(PPM) PID: 1" Well Diameter: (Inches) NAPL: (Y/N)//(Inches) Good **Condition of Casing:** Condition of Pad: Good Comments:

#### FIELD MEASUREMENTS

Depth to Bottom: Ft. A. 11.79 Ft. В. Depth to H₂O: C. H₂O Column Height: (A – B) Ft. D. Purge Method Used: 3 Well Volumes or Parameter Parameter Stabilization Stabilization E. Well Factor: 0.041 x (Well Diameter)² (Inches)² F. One Well Volume: (C x D) GPF (from sheet) 3 G. No. Volumes to be Purged:

_

2.5

Gallons

Gallons

Time	pН	COND	TURB	DO	TEMP	SAL	Comments
_		(mS/cm)	(NTU)	(mg/l)	('C)	(%)	
0815	6.42	1.11	_	9.18	19.8	-	
0820	6.51	0.268		9.41	18.7	-	
0825	6.25	0.238		9.35	18.4	-	
0830	6.22	0.232		9.13	18.3	~	
0835	6.27	0.230		9.02	18.2		
0840	6.10	0.232	<del></del>	8.75	18.2	-	
	6.23	0.231		9.62	18.9	-	
						-	
							The second secon
	<del></del>						

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Total Volume to be Purged: (F x G)

Actual Volume Purged to Stabilization:

H.

I.

### GROUNDWATER SAMPLING FIELD DATA SHEET

Site Name: Procino Plating Site No.: **DE** -0344 MW05 PPMW05 Well No .: Sample No.: 6/17/11 KAS & JGC Date: Samplers: Sunny & Warm Weather: Sample Time: 1055 Comments: WELL OBSERVATIONS Flush Mount: Y (Y/N)(Y/N)Locked: N (Y/N)(PPM) PID: Stick Up: 1" N (Inches) (Y/N)//(Inches) Well Diameter: NAPL: **Condition of Casing:** Good Condition of Pad: Good Comments: FIELD MEASUREMENTS

	PIELD MEA	SUREMENTS	
A.	Depth to Bottom:	<u></u>	Ft.
В.	Depth to H ₂ O:	11.40	Ft.
C.	H ₂ O Column Height: (A – B)		Ft.
D.	Purge Method Used:		
	3 Well Volumes or	Parameter	
	Parameter Stabilization	Stablization	
E.	Well Factor: 0.041 x (Well Diameter) ²		(Inches) ²
F.	One Well Volume: (C x D)	_	_ GPF (from sheet)
G.	No. Volumes to be Purged:	3	
H.	Total Volume to be Purged: (F x G)		_ Gallons
I.	Actual Volume Purged to Stabilization:	3	Gallons

Time	pН	COND	TURB	DO	TEMP	SAL	Comments
		(mS/cm)	(NTU)	(mg/ <i>l</i> )	( <u>'C</u> )	(%)	
1025	6.48	0.199	P	11.52	19.1	-	
1030	6.54	0.195		11.17	17.8		
1035	6.55	0.195		11.10	17.6		
1040	6.65	0.199		10.78	17.5		
1045	6.65	0.199		10.63	17.8	-	
1050	6.82	0.198		12.56	19.1		
				-			
		<b>\</b>		1			

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### GROUNDWATER SAMPLING FIELD DATA SHEET

Site Name: Procino Plating Site No.: DE -0344 Well No .: MW-06 PPMW06 Sample No.: 6/17/11 Samplers: JGC & KAS Date: Sunny & warm  $80^{o}$ Sample Weather: Time: 0945 Comments: WELL OBSERVATIONS (Y/N)Flush Mount: Y Locked: (Y/N)Ν (PPM) (Y/N)Stick Up: PID: 1" Well Diameter: (Inches) No (Y/N)//(Inches) NAPL: Good Condition of Casing: Condition of Pad: Good Comments:

### FIELD MEASUREMENTS

A. Depth to Bottom: Ft. Ft. В. Depth to H₂O: 10.67 C. H₂O Column Height: (A – B) Ft. D. Purge Method Used: 3 Well Volumes or Parameter Parameter Stabilization Stabilization (Inches)² Well Factor: 0.041 x (Well Diameter)² E. F. One Well Volume: (C x D) GPF (from sheet) G. No. Volumes to be Purged: 3

H. Total Volume to be Purged: (F x G) — Gallons
I. Actual Volume Purged to Stabilization: 4 Gallons

Time	pН	COND	TURB	DO	TEMP	SAL	Comments
		(mS/cm)	(NTU)	(mg/ <i>l</i> )_	<('C)	(%)	
0915	6.12	0.149		10.77	18.7		
0920	6.09	0.158		11.62	17.8	-	
0925	6.07	0.163		10.97	17.5		
0930	5.77	0.166		10.10	17.3	-	
0935	5.68	0.167	***	10.13	17.6		
0940	5.75	0.163		10.76	17.5		
1015	6.15	0.164		10.89	18.8	_	\$ 1000pm

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### APPENDIX E SOIL SAMPLE SCREENING RESULTS

### APPENDIX F CHAIN OF CUSTODY RECORDS

Environmental Laboratory Section - Division of Water Department of Natural Resources and Environmental Control 89 Kings Highway, Dover, DE 19901 (302) 739-9942

# FIELD CHAIN OF CUSTODY





Address Client

DNREC - Division of Air & Waste Management Robert M. Schulte Invoice To Report To Robert M. Schulte

Account

Robert M. Schulte

ED_005024_00000667-00077

ELS Order ID:

Phone No.: (302) 395-2600

391 Lukens Drive, New Castle, DE 19720

required? Yes / No	00000				700000								
Is laboratory chain-of-custody													COMMENTS:
SE - sediment WW - waste water													
DW - drinking water SL - sludge ER - equip, rinseate SO - soil		December of the second	re)	ignatu	BY: (s	RECEIVED BY: (signature)	RECE	ME .	AMIL	E	DATE	RELINQUISHED BY: (signature)	RELINQUISHE
	***************************************			5	2	4		$\left\{ -\right\}$	<del>\</del>	1950	<b>K</b>	PP-5 BD15	
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	,									S. S		DEDIMM-DA	
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										DHO		PP- 5803 S	
										0925		PP-MW03D	
				メヌ	×	Ø		X	100 100 100 100 100 100 100 100 100 100	B	5-24-11	PP. MW. 03-S	0000001
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	~~~	***************************************		**************************************	V	tainers		, www.ecocococococococ		hand and and and and and and and and and	Date		Lab Log No.
REMARKS		**************************************		7OA s (tot		Cer o	Grab	Comp	Matrix	Sample	Sample	Client Sample Description	(ELS Use Only)
				al & d	.	2					HALL	SAMPLERS (Please Print) PRICE STANLEY	SAMPLERS (PIG
ı			******************	 [88]		•			(8 (8 (8)	lo Pla	Procin	DE-0344 (Procino Plating)	
2		SES	ANALYSES										PROJECT NAME

ELS USE ONLY

- Sample Conditions (circle response):

 1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA 5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No/NA 9. Yes/No/NA 9. Volume sufficient for analysis? Yes/No/NA 9. Yes/No/NA
 - 8. Volume sufficient for analysis? Yes/No

Department of Natural Resources and Environmental Control 89 Kings Highway, Dover, DE 19901 (302) 739-9942 Environmental Laboratory Section - Division of Water

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

ED_005024_00000667-00078



Phone		Address	Client
No.:	,	% ,••	
Phone No.: (302) 395-2600	391 Lukens Drive, New Castle, DE 19720	: DNREC - Division of Air & Waste Management	Robert M. Schulte
ELS Order ID :	Account	Invoice To	Report To
E	i.	Ι.	j
		Robert M. Schulte	Robert M. Schulte

PROJECT NAME	DE-0344 (Procino Plating)	Procin	o Pat				***************************************	4	[25]		ANALYSES			
SAMPLERS (PI	SAMPLERS (Please Print) OP (E/STANLE)	ナハして	ک				Z S		~000				anno a Stanon a succession a	
(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Mairix.	Comp	Grab	Of Con- tainers	VOA	SVOA Metals (tot		and the state of t			REMARKS
	PP-SB01D	1800	334	28	X		0	7		_				
	PP-MINIOTS		0161										***********	
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RELINQUISHE	RELINQUISHED BY: (signature)	DATE		TIME	(75)	RECEIVED BY: (signature)	(VED I	3Y: (si	gnatu	re)				DW - drinking water SL - sludge ER - equip, rinscate SO - soil
			**************************************		···						1		,	4
														SE - sediment WW - waste water
COMMENTS:														
														Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY

Sample Conditions (circle response):

- 1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA 5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Department of Natural Resources and Environmental Control 89 Kirys Highway, Dover, DE 19901 (302) 739-9942 Environmental Laboratory Section - Division of Water

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

ED_005024_00000667-00079

Client Address DNREC - Division of Air & Waste Management Robert M. Schulte 391 Lukens Drive, New Castle, DE 19720 Invoice To Report To Account Robert M. Schulte Robert M. Schulte

SAMBONDAIN COM	Phone No.: (302) 395-2600	(302) 395-	2600						ELS	ELS Order ID:	Ë					
PROJECT NAME		3	1							ž	ANALYSES	SE				
	(Smrar 1 cmc 11) ++co-ad	TIVUL	VIIa	(Sm					•	133)	**********			2000000		200200000
SAMPLERS (Please Print)	se Print)	,					3	~^~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						nenedd different	
(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix	Comp	Grab	Of Con- tainers	VOA	SVOA	Metals (tota				anacananyudeennaanannaanannaanan	REMARKS	&
	PP-MWDUS	5-25-11	B 1	2.08	\times		Q	7	X							
	PP-MWB4D		eend								~~~~					
	PP-56055		begin		20000					***************************************						
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	PP-MW055		dott											annonhom.		
	PP- MINGS D		109													
	PP-58065		1330)													
	PP-SB060		1336													
	PP-MMIDIOS		136E													
	PP-MWOGOD	(1861	\(-	<u> </u>		Ł	\leq	=	\$	***************************************		***************************************			
RELINQUISHED BY: (signature)	BY: (signature)	DATE	7	TIME		RECE	RECEIVED BY: (signature)	BY: (igna	ture)					DW - drinking water SI	SL - sludge SO - soil
					000000000000000000000000000000000000000											SW - surface water TI - tissue
and the second															SE - sediment W	WS - solid waste WW - waste water
COMMENTS:																
or-acconnegation															Is laboratory chain-of-custody required?	of-custody
															Yes / No	0

ELS USE ONLY

Sample Conditions (circle response):

- 5. Properly preserved? Yes/No 1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
- 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Department of Natural Resources and Environmental Control 89 Kings Highway, Dover, DE 19901 (302) 739-9942 Environmental Laboratory Section - Division of Water

FIELD CHAIN OF CUSTODY (Complete in BLUE ink)





Client: Kobert M. Schulte Report To Address: DNREC - Division of Air & Waste Management Invoice To 391 Lukens Drive, New Castle, DE 19720 Account Phone No.: (302) 395-2600 ELS Order	on of Air & Waste Management I. Ive, New Castle, DE 19720
Report To Invoice To Account ELS Order	book ○
	8

	COMMENTS:			RELINQUISHE										(ELS Use Only) Lab Log No.		SAMPLERS (Ple	PROJECT NAME
				RELINQUISHED BY: (signature)					PP-SBYOD	PP-58040	PP-SROUS	PP-58075	PP-SB Ø75	Client Sample Description		SAMPLERS (Please Print) PRICE (STANLEY	E DE-0344 (Procino Plating)
		CCC AND	о динации по	DATE			***************************************	mode	<	2000000000			E120 11-25-51	Sample Date		F-	Procin
			**************************************	হো		**** ********************************			7620	<u>の下数</u>	& hod	ØeDO		Sample			o Plat
				TIME		/			4				718	Xerix,			(Sp.
			**************************************	(II)			_	_	(×	Comp			
				RECE				,						Grab		***************************************	
				RECEIVED BY: (signature)		_			1				Ú	Con- tainers	<u>Q</u>	Ş	
				8Y: (s	 		_						7	VC			
				manu g	 	and Discoops		_	4				ナメ	SVO Metals (JAY Tota	l & d	iss)
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							-							mynnmigy munners.	************		
										Ç00000******	-			9000007*** INNA-RAMARANI	A	www.wiaaaaaaa	. :
Is laboratory c requ Yes		SE - sediment	GW - ground water Lab - lab water	DW - drinking water ER - equip, rinseate		ann-augus							OCCUPANT OF THE PROPERTY OF TH	REM			
Is laboratory chain-of-custody required? Yes / No		WS - solid waste WW - waste water	SW - surface water TI - tissue	SL - sludge SO - soil										REMARKS			

ELS USE ONLY
Sample Conditions (circle response):

1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA 5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc:040101

Department of Natural Resources and Environmental Control 89 Kings Highway, Dover, DE 19901 (302) 739-9942 Environmental Laboratory Section - Division of Water

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)



	Address :	Client :
391 Lukens Drive, New Castle, DE 19720	DNREC - Division of Air & Waste Wanagement JUSSIBNCE	Robert M. Schulte
Account	invoice To	Report To
***************************************	Robert M. Schulte	Robert M. Schulte
	391 Lukens Drive, New Castle, DE 19720	Address: <u>DNREC - Division of ALL Wester Hanagement</u> 391 Lukens Drive, New Castle, DE 19720 Account:

COMMENIA	COMMENTS.	Cold of the 10-11 11255	RELINQUISHER BY: (signature) DATE TIME RECEIVED BY: (signature)	10641.008 DUP-1 CIWII NF GW / 7	<	W.E./7	106011-005 PPMW04 6/6/11 0895 GW 1 7 7	10 6041 004 PPM WO3 6/6/11 1015 GW - 12	6/16/11 1215	106041.002 PP MWO1 6/W11 1330 GW / 3	0604 -00 Trip Blank	(ELS Use Only) Client Sample Description Sample Sample Matrix Comp Grab Con- Lab Log No. Date Time	SAMPLERS (Please Print) JOHN CARGUL / KRYSTAC STANLEY NO.	DE-0344 (Procino Plating)	PROJECT NAME
Is laboratory chain-of-custody required?	SE - sediment WW - waste water		DW - drinking water SL - sludge					USE FOR MS/MSD				REMARKS			ANALYSES

ELS USE ONLY

Sample Conditions (circle response):
1. Samples match COC? Yes No 2. Bottles supplied by ELS? Yes No 3. Samples received broken/leaking? Yes No 4. Cooler temp bottle 2-6 degrees? Yes No/NA 5. Properly preserved? Yes No 6. VOA/DO containers free of headspace? Yes No/NA 7. Holding times expired? Yes No 8. Volume sufficient for analysis? Yes No

Coc:040101

CHAIN OF CUSTODY / ANALYSIS REQUEST

777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING		CHAIN OF CUSTODY / ANALYSIS REQ	NALYSISH	EQUEST	-53	Page of O
Name (for report and invoice)	SS	Samplers Name (Printed)	. (0	Site/Project Identification	(DF-0)	()
Company	ָּטִּ	P. O. #	1.0	State (Location of site): NJ:	NY.	Other:
77000170				Regulatory Program:		
Address BY LUKENS DRIVE	An	Analysis Turnaround Time Standard	ANALYSIS REQUES	ANALYSIS REQUESTED (ENTER %: BELOWTO INDICATE REQUEST)		Project No:
S		Rush Chrages Authorized For:			7	
MCHOLLE	OF		<u>/U.</u>		000000000000000000000000000000000000000	Job No:
,	302-395-2601	Other	J // I		200000000000000000000000000000000000000	
itific		Time Matrix Cont.	900		8000000000000000	Sample Numbers
PP-MINIOS S	0 11-46-5	0918 SOIL 1 3				
PP- NWO3D		95 Sep				
PP-SB035		IQHQ				
PP-SBM03D		10 P				
SCOMM -90		100				
DED WIN AS		85 				
60-SBØ3S		0.5			00005555888	
DEDS-99	/c.	120			000000000	
PP-SBO4S		1950	\ 		90000000000	,
PP-SBOY D		NA 1 1958				
Preservation Used: $(1 = CE ^2 = HCI, 3 =$	$2 = HCI$, $3 = H_2SO_4$, $4 = HNO_3$, $5 = NaOH$	S = NaOH Soil: 10	9			
6 = Other	7 = Other	Water:				
Special Instructions				Wat	Water Metals Filtered (Yes/No)?	(Yes/No)?
	Company	Date / Time	Received by		Company	·
Relinquished by	Company .	Date / Time	Received by		Company	
2)			2)			
Relinquished by C	Company	Date / Time	Received by		Company	
			3)		,	
Relinquished by C	Company	Date / Time	Received by		Company	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-3679

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PATAL TERRITAIN	はなっている。これなってい

	Composit		Deceived by	l Date / Time	Company	Relinquished by
			3)			3)
	Company	y	Received by	Date / Time	Company	Relinquished by
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	Company	<i>,</i>	Received by	Date / Time	Company	Relinquished by
	-					
***************************************	Company		Received by	Date / Time	Company	Relinquished by
Water Metals Filtered (Yes/No)?	ater Metals	W				Special Instructions
				Water:	7 = Other	6 = Other
				5 = NaOH Soil: 10	$3 = H_2SO_4$, $4 = HNO_3$	Preservation Used: 1 = ICE 2 = HCl, 3
000000000				1986 V V V		PP-SBOY D
00000000				1360		PP-SBQ4S
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				1005		PP-MINIODD
						NEDMM-90
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				1040		PP-SB03S
				95 Cap		PP-MINOSD
00000000				MIS SIL - X	11-46-5	PP-MINES S
Sample Numbers				Time Matrix Cont.	Date	ntific
	_			Other Other	** ***********************************	302-395-2600 302-3
Job No:	_				DE	MCASTLE
Project No:			100	Standard Standard Standard Standard Standard Standard For:	State	City CUKTAN DRIVE
LAB USE ONLY	7)	ANALYSIS REQUESTED (ENTER 'X: BELOW TO INDICATE REQUEST)	┨.	Analysis Turnaround Time		Address
Other:	NY:	State (Location of site): NJ: Regulatory Program:				DAREC-SIRS
DE-0344)*	6	T 3		Samplers Name (Printed)		Name (for report and invoice) BOB SCHULTE
Page 1 of		REQUEST	VALYSIS I	CHAIN OF CUSTODY / ANALYSIS REQUEST		THE LEADER IN ENVIRONMENTAL TESTING

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TestAmericc

777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-3679

NEMICASTLE Address LULENS ONREC-SIRS Name (for report and invoice)
808 SCHULTE Relinquished by Relinquished by Special Instructions Preservation Used: (1 = ICE), 2 = HCI, 3 = H₂SO₄, 4 = HNO₃Relinquished by Relinquished by THE LEADER IN ENVIRONMENTAL TESTING 307-395 J6Q Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). PP-MINIOGS PP- MIN 050 PP-MMOSS PP-MWIDYS PP-5005 D GHOMM - JA P-58055 Sample Identification 6 = Other 300-375-360 Company Company Company Company 7 = Other= 48.9 - 6 Date CHAIN OF CUSTODY / ANALYSIS REQUEST 79977P P.O.# 3661 Satt 211 Samplers Name (Printed) 1336 るがな Rush Chrages Authorized For: Analysis Turnsround Time 5 = NaOH 1338 eer 1331 beat Standard ___ Time 2 Week 1 Week Other 8 Matrix Date / Time Date / Time Date / Time Date / Time No. of. Cont. Water: Soil: 0 PEST/ACB/CN Received by ω Received by Received by Received by ANALYSIS REQUESTED (ENTER "X: BELOW TO INDICATE REQUEST) State (Location of site): NJ: Site/Project Identification
PRUCIMO PLATING Regulatory Program: Water Metals Filtered (Yes/No)? Company Conspany Company Company DE-0344 Other: LAB USE ONLY Project No: Numbers Job No: Sample

Massachusetts (M-NJ312), North Carolina (No. 578)

TestAmerica

777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING	CH <u>A</u>	CHAIN OF CUSTODY / ANALYSIS REQUEST	YSIS REQUEST	Page of	- Allenna
Name (for report and invoice)	· ·	Samplers Name (Printed)	Site/Project Identification PRUCINO PUPTING	~ /!	000000000000000000000000000000000000000
COMPANY DNREC-SIRS	and the second s	P.O.#	State (Location of site): NJ: Regulatory Program:	NY: Other:	
Address 39 CONTINIO DO	>		ANALYSIS REQUESTED (ENTER 'X: BELOW TO INDICATE REQUEST)	LAB USE ONLY	ONLY
OIN State DE State	Марилин	Rush Chrages Authorized For:		CO 0 D Z	2
Fax 3 <i>00</i> -	72(00)	Other C		nor-white disconnection	***************************************
Sample Identification		Time Matrix Cont.		Sample Numbers	Š
SEP 3-99	5-26-11			SOMEON SOME	
0 F \$885-99					
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0P-SBOH 0		PAHO			
AN-SBAND	*	1 1 1 1 CB		30,000,000	
				00000000	
				000000000000000000000000000000000000000	200200.

Preservation Used: $(1 = ICE, 2) = HCI, 3 = H_2SO_4, 4$	# HNO ₃ ,	5 = NaOH Soil:			
6 = Other, 7 =	7 = Other	Water:			
Special Instructions			Wate	Water Metals Filtered (Yes/No)?	
Relinquished by Company	any	Date / Time Rec	Received by O	Company	
Relinquished by Company	any	Date / Time Re	Received by C	Company	innennauuus va
	**************************************	Data / Times (2)			
3)	***************************************		3)	(A) in process	
Relinquished by Company	yne	Date / Time Rev	Received by C	Conrpany	
1	8		8		
Laboratory Certifications: New Jersey (12028),		New York (11452), Pennsylvania (68-522),	522), Connecticut (PH-0200), Rhode Island (132).		TAL - 0016 (0408)

TestAmerico

777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Preservation Used: 1 = ICE, 2 = HCI, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOHAddress , Company THE LEADER IN ENVIRONMENTAL TESTING Relinquished by Relinquished Special Instructions U. X Relinquished by Hebiquished by 391 Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). DNEEL - DINISION OF WIKE & HAZ. PDM NO4 SOMWOR DDM MI OZ DOM WOZ PPMMICI PPM WOG PER 307. 395-2600 Sample Identification 6 = Other SCHULT 3/17-395-7672 PPMWOZ State Company Company Company Company 7 = Other MULSIN Date NR M915501 P.O. # Samplers Name (Printed) 11 S/N S/1 M4215400 Rush Chrages Authorized For: Analysis Turnaround Time Time Standard 252 1 Week 2 Week Other CMS CIN Matrix 17/11/1936 Date / Time Date / Time Date / Time Date / Time Cont. 占 Water: Soil: CENSTAN. PESTICIDE Rec Received by ANALYSIS REQUESTED (ENTER 'X: BELOW TO INDICATE REQUEST) Received by Receiveorby CYANIDE Site/Project Identification Regulatory Program: カッドとく State (Location of site): NJ: PRICING PLATIN Ex. 4 CBI Water Metals Filtered (Yes/No)? Company Company Company Company 2120 z Other: 0344 Page Project No: LAB USE ONLY Numbers Job No: Sample Q. TAL - 0016 (0408)

APPENDIX G SOIL SAMPLE ANALYTICAL RESULTS

APPENDIX H GROUNDWATER SAMPLE ANALYTICAL RESULTS

APPENDIX I DRINKING WATER SAMPLE ANALYTICAL RESULTS

CHEMICAL FORM

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

Bar Co F * \$ 2 6 7 6 8 9 *	(302) 223-1520 TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*			
Collection Time: (military) 125 8	*Confirmation & *Replacement Requires Original Sample #			
Collection Date:5/19/10				
PWSID #PRIVATE Supply Na	t			
Facility Name: Ex. 6 Personal Privacy (PP) Roc (For example: Treatment Plant, Sampling Station, or Distribution Syst	tem) (For example: 19001, 55001, D5001, or WL001/DNKEC 10#)			
Sample Point Blade, DE 19973	Sample Point # outside tap			
AST/Operator # Collector's Na	(For example: DEP001, MRT001, SP042, or WT001) me Collector's Phone Collector's Fax #			
· .	Clain741-8630741-8631			
Free Chlorinemg/L Total	Chlorinemg/L \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
pH Field Test Monitoring Sched	dule: Mthly. Qtr. Ann. Tri. Oth.			
Analyte Group: Please check box of individual test required.				
	JLL CHEM: (mg/L) Coutine Chem. plus: Alk, Hardness, TDS]			
TRACE: (mg/L)	n 🗆 Cu 🗀 Anions 🗀 CN [NO3, NO2, F, CI]			
	esticides			
☐ 531 ☐ 504 ☐ Gross Alpha	□ Radium 226/228 □ Other:			

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203

Dover, DE 19901 Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977 Phone: (302) 223-1520 Fax: (302) 653-2877

Date Collected:

05/19/2010 12:58 pt

SCHEERS/MCCLAII

05/20/2010 12:55 pt

601

Agency: Office of Drinking Water

Label ID (Sample #): S267689 (383009)

Property Owner/Facility: Ex. 6 Personal Privacy (PP) Collected By:

PRIVATE

PWSID: Collector ID: **OUTSIDE TAP** Date Received: Sample Point:

Ex. 6 Personal Privacy (PP) RD BLADE, Sampled pH:

Sample Location: DE 19973

Sample Type: SP Free CI: Chlorination: Not Chlorinated or Total CI:

Tested

a water for the wind the May you, and you do state more grown graph and the way a more than the work of may were an absence or the state of the stat	meter i glada demonstrato di dista di la composito per metero menera para metero per encommenta de la segui dela segui dela segui de la segui de la se	and the state of t	and the street of the second contract of the
Test	Result	MCL	Date Released
EPA200.8	erreterans i a commercial de la commencia de l	e mais virtualismo es acente esta acente (a interpreta d'annominas, en el establección interpreta en electrico e e e	- transfer trapier in trapier of parties for each defined spotting and extended parties of the transfer of
Uranium	<0.0005 mg/L	<=0.03	05/21/2010
Manganese	0.2378 mg/L	<=0.05	05/21/2010
Barium	0.4015 mg/L	<=2.0000	05/21/2010
Antimony	<0.0005 mg/L	<=0.006	05/21/2010
Thallium	<0.0005 mg/L	<=0.002	05/21/2010
Selenium	<0.010 mg/L	<=0.05	05/21/2010
Chromium	0.0028 mg/L	<=0.1	05/21/2010
Lead	0.0027 mg/L	<=0.015	05/21/2010
Mercury	<0.0005 mg/L	<=0.002	05/21/2010
Cadmium	<0.0005 mg/L	<=0.005	05/21/2010
Beryllium	0.0008 mg/L	<=0.004	05/21/2010
Arsenic	<0.0005 mg/L	<=0.01	05/21/2010
Nickel	0.0134 mg/L		05/21/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267689 (383009)

Ex. 6 Personal Privacy (PP)

Property Owner/Facility: Ex. 6 Pers
PWSID: PRIVATE

Sample Point:

OUTSIDE TAP

Sample Location: Ex.6 Personal Privacy (PP) RD BLADE,
DE 19973

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Specimen Note:

Sample previously released. Sample report ammended to include zinc values as requested by

Date Collected:

Date Received:

Collected By:

Collector ID:

Sampled pH:

Free CI:

Total CI:

05/19/2010-12:58-pr-

SCHEERS/MCCLAII

05/20/2010 12:55 pt

601

ODW.

Test	Result	MCL	Date Released
EPA200.8	e water within the manufacture of the contribution of the contribu	ne dan 1990 kelandian dia 1990 kelandi. Amerikan Persebanya Mendelengan Amerikan Salah Salah Salah Salah Salah Salah Salah Sa	the strategy point to the first that will state a three partitions and the second
Arsenic	<0.0005 mg/L	<=0.01	05/28/2010
Nickel	0.0134 mg/L		05/28/2010
Beryllium	0.0008 mg/L	<=0.004	05/28/2010
Cadmium	<0.0005 mg/L	<=0.005	05/28/2010
Chromium	0.0028 mg/L	<=0.1	05/28/2010
Lead	0.0027 mg/L	<=0.015	05/28/2010
Thailium	<0.0005 mg/L	<=0.002	05/28/2010
Selenium	<0.010 mg/L	<=0.05	05/28/2010
Mercury	<0.0005 mg/L	<=0.002	05/28/2010
Antimony	<0.0005 mg/L	<=0.006	05/28/2010
Uranium	<0.0005 mg/L	<=0.03	05/28/2010
Manganese	0.2378 mg/L	<=0.05	05/28/2010
Previously Reported As:	0.2378 mg/L		
Zinc	0.0357 mg/L	<=5	05/28/2010
Barium	0.4015 mg/L	<=2.0000	05/28/2010
Previously Reported As:	0.4015 mg/L		



Print Date: 05/28/2010

CHEMICAL FORM

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

Bar Code Number:	TEST Request: (302) 223-1520			
F * \$ 2 6 7 6 8 8 *	 □ Routine □ Complaint □ Confirmation* X Special □ MRT □ Field Blank □ Split □ Duplicate □ Replacement* 			
Collection Time: (military) 13 00	*Confirmation & *Replacement Requires Original Sample #			
Collection Date:5/19/10				
PWSID #_PRIVATE Supply Name	e: Ex. 6 Personal Privacy (PP)			
Facility Name Ex. 6 Personal Privacy (PP) Cd (For example: Treatment Plant, Sampling Station, or Distribution System)	Blade S. DE 19973 Facility # Outside tap (For example: TP001, SS001, DS001, or WL001/DNREC ID#)			
Sample Point <u>or</u>	Sample Point # Outside tap			
AST/Operator # Collector's Name	(For example: DEP001, MRT001, \$P042, or WT001) Collector's Phone Collector's Fax #			
601 / DE-331Scheers /McCla	ain741-8630741-8631			
Free Chlorinemg/L Total Ch	llorinemg/L VI Not Chlorinated			
pH Field Test Monitoring Schedul	le: 🗆 Mthly. 🗆 Qtr. 🗀 Ann. 🗆 Tri. 🗆 Oth			
Analyte Group: Please check box of individual test required.				
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]				
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Ti]	☐ Cu ☐ Anions ☐ CN [NO ₃ , NO ₂ , F, CI]			
OVOCS TTHM HAA5 Pest	ticides			
□ 531 □ 504 □ Gross Alpha □	Radium 226/228			

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901

Dover, DE 19901 Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S267688 (383008)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

Collected By:

Date Collected:

05/19/2010 1:00 pn

PRIVATE

Collector ID:

SCHEERS/MCCLAII

Date Received:

05/20/2010 12:55 pt

Ex. 6 Personal Privacy (PP) RD BLADES, Sampled pH:

DE

Sample Type:

SP

Chlorination: Not Chlorinated or

Tested

OUTSIDE TAP

Free CI:

Total CI:

Specimen Note:

PWSID:

Sample Point:

Sample Location:

Test	Result	MCL	Date Released
SM4500CN-F Cyanide	<0.05 mg/L	<0.2	05/21/2010



CHEMICAL FORM

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

Bar (Lusere as values in state as the state of the state	TECT Decises. (302) 223*1320			
F * \$ 2 7 0 1 8 3 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*			
Collection Time: (military) 1304	*Confirmation & *Replacement Requires Original Sample #			
Collection Date:5/19/10				
PWSID #PRIVATE Supply Nar	ne: Ex. 6 Personal Privacy (PP)			
Facility Name: Ex. 6 Personal Privacy (PP) 2d (For example: Treatment Plant, Sampling Station, or Distribution Systematics)				
Sample Point Blades DE 1997	13 Sample Point # outside tap			
AST/Operator # Collector's Nan	(For example: DEP001, MRT001, SP042, or WT001) Collector's Phone Collector's Fax #			
601 / DE-331Scheers /McC	lain741-8630741-8631			
Free Chlorinemg/L Total C	Chlorinemg/L 🖸 Not Chlorinated			
pH Field Test Monitoring Sched	ule: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth			
Analyte Group: Please check box of inc	dividual test required.			
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,] □ Routine Chem. plus: Alk, Hardness, TDS]				
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Ti]	□ Cu □ Anions □ CN [NO ₃ , NO ₂ , F, Cl]			
VOCs TTHM HAA5 Pe	sticides			
□ 531 □ 504 □ Gross Alpha	□ Radium 226/228 □ Other:			
Field Blank ID Number:				

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901

Dover, DE 19901 Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$270183 (383007)

Property Owner/Facility Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OUTSIDE TAP

Sample Location:

Ex. 6 Personal Privacy (PP) RD BLADES,

DE SP

Sample Type: Chlorination:

Not Chlorinated or

Tested

Date Collected:

-05/19/2010-1:04-pn-

Collected By:

Date Received:

Sampled pH:

Free CI:

Total CI:

SCHEERS/MCCLAII

Collector ID:

601

05/20/2010 12:55 pt

Test	Result	MCL	Date Released
EPA524.2	egeneral magnetic services of the transfer of the services of	na na vita i na mari vita de come na na vita i na	August 1 for a Maria Carron Common and a Maria M
1,2,4-trichlorobenzene	<0.5 μg/L	<80.000	05/24/2010
P-dichlorobenzene	<0.5 μg/L	<75.000	05/24/2010
O-dichlorobenzene	<0.5 μg/L	<600.000	05/24/2010
1,1,2-trichloroethane	<0.5 μg/L	<5.000	05/24/2010
Toluene	<0.5 μg/L	<1,000.000	05/24/2010
Tetrachloroethylene	<0.5 μg/L	<5.000	05/24/2010
Chlorobenzene	<0.5 μg/L	<100.000	05/24/2010
Ethylbenzene	<0.5 μg/L	<700.000	05/24/2010
Xylenes	<0.5 µg/L	<=10,000.000	05/24/2010
Styrene	<0.5 μg/L	<100.000	05/24/2010
Cis-1,2-dichloroethylene	<0.5 µg/L	<70.000	05/24/2010
1,1,1-trichloroethane	<0.5 μg/L	<200.000	05/24/2010
Carbon tetrachloride	<0.5 μg/L	<5.000	05/24/2010
1,2-dichloropropane	<0.5 μg/L	<5.000	05/24/2010
Trichloroethylene	<0.5 μg/L	<5.000	05/24/2010
1,2-dichloroethane	<0.5 µg/L	<5.000	05/24/2010
Benzene	<0.5 µg/L	<5.000	05/24/2010
Vinyl Chloride	<0.5 μg/L	<2.000	05/24/2010
1,1-dichloroethylene	<0.5 µg/L	<7.000	05/24/2010
Dichloromethane	<0.5 μg/L	<5.000	05/24/2010
Trans-1,2-dichloroethylene	<0.5 µg/L	<100.000	05/24/2010
Dichlorodifluormethane	<0.5 µg/L		05/24/2010
Chloromethane	<0.5 µg/L		05/24/2010
Bromomethane	<0.5 μg/L		05/24/2010
Chloroethane	<0.5 μg/L		05/24/2010





Division of Public Health Laboratory

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Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$270183 (383007)-

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OUTSIDE TAP

Sample Location:

Ex. 6 Personal Privacy (PP) RD BLADES,

DE SP

Sample Type: Chlorination:

Not Chlorinated or

Tested

Date-Collected:—

_05/19/2010__1:04_pn__

Collected By:

SCHEERS/MCCLAII

Collector ID:

601

Date Received: 05/20/2010 12:55 pt

Sampled pH:

Free CI:

Total CI:

Test	Result	MCL	Date Released
Trichlorfluoromethane	<0.5 μg/L	er er somethere with ever commenter in a second day parents in ever	05/24/2010
Methyl tert-butyl ether (MTBE)	<0.5 µg/L		05/24/2010
1,1-dichloroethane	<0.5 µg/L		05/24/2010
2,2-dichloropropane	<0.5 μg/L		05/24/2010
1,1-dichloropropene	<0.5 μg/L		05/24/2010
Bromodichloromethane	<0.5 μg/L		05/24/2010
Dibromomethane	<0.5 μg/L		05/24/2010
Cis-1,3-dichlorpropene	<0.5 µg/L		05/24/2010
Chloroform	<0.5 µg/L		05/24/2010
Bromochloromethane	<0.5 μg/L		05/24/2010
Trans-1,3-dichloropropene	<0.5 µg/L		05/24/2010
1,3-dichloropropane	<0.5 µg/L '		05/24/2010
Chlorodibromomethane	<0.5 μg/L		05/24/2010
Ethylene dibromide (EDB)	<0.5 μg/L		05/24/2010
Bromoform	<0.5 μg/L		05/24/2010
Isopropylbenzene	<0.5 μg/L		05/24/2010
1,1,2,2-tetrachtorethane	<0.5 μg/L		05/24/2010
1,2,3-trichloropropane	<0.5 µg/L		05/24/2010
Bromobenzene	<0.5 μg/L		05/24/2010
N-propylbenzene	<0.5 μg/L		05/24/2010
O-chlorotoluene	<0.5 µg/L		05/24/2010
1,3,5-trimethylbenzene	<0.5 µg/L		05/24/2010
P-chlorotoluene	<0.5 μg/L		05/24/2010
Tert-butylbenzene	<0.5 μg/L	THE RESIDENCE OF THE PROPERTY	05/24/2010
1,2,4-trimethylbenzene	<0.5 μg/L		05/24/2010
Sec-butylbenzene	<0.5 μg/L		05/24/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

-Label-ID (Sample #): \$270183 (383007)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OUTSIDE TAP

Sample Location:

Ex. 6 Personal Privacy (PP) R RD BLADES,

DE SP

Sample Type: Chlorination:

Not Chlorinated or

Tested

Date Collected:-

-05/19/2010--1:04-pn-

Collected By:

SCHEERS/MCCLAII

Collector ID:

601

Date Received: 05/

Sampled pH:

05/20/2010 12:55 pt

Free CI: Total CI:

Test	Result	MCL	Date Released
P-isopropyltoluene	<0.5 µg/L	ra tayan kanada sanay a silada sanay asan sanay asan sanay and a sanada an an and an an an an an an an an an a	05/24/2010
M-dichlorobenzene	<0.5 μg/L		05/24/2010
1,1,1,2-tetrachloroethane	<0.5 μg/L		05/24/2010
N-butylbenzene	<0.5 μg/L		05/24/2010
Dibromochloropropane	<0.5 µg/L	•	05/24/2010
Hexachlorobutadiene	<0.5 µg/L		05/24/2010
Naphthalene	<0.5 µg/L		05/24/2010
1,2,3-trichlorobenzene	<0.5 μg/L		05/24/2010



CHEMICAL FORM

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * S 2 6 7 6 9 1 * M	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*		
Collection Time: (military) 1225	*Confirmation & *Replacement Requires Original Sample #		
Collection Date:5/19/10			
PWSID #PRIVATE Supply Nar	ne: Ex. 6 Personal Privacy (PP)		
Facility Name: Ex. 6 Personal Priv (For example: Treatment Plant, Sampling Station, or Distribution Systems)			
Sample Point Blades, DE 19973	3 Sample Point # <u>OT</u> . (For example: DEP001, MRT001, SP042, or WT001)		
AST/Operator # Collector's Nan	· · · · · · · · · · · · · · · · · · ·		
601 / DE-331Scheers /McC	lain741-8630 741-8631		
Free Chlorinemg/L Total C	Chlorine mg/L Not Chlorinated		
pH Field Test Monitoring Sched	ule: 🗆 Mthly. 🗈 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth		
Analyte Group: Please check box of individual test required.			
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]			
☑ TRACE: (mg/L) ☐ Mr [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	Cu Anions CN [NO ₃ , NO ₂ , F, Cl]		
	sticides		
□ 531 □ 504 □ Gross Alpha	□ Radium 226/228 □ Other:		
Field Blank ID Number:			

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977 Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267691 (383011)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID: PRIVATE

Sample Point: OT

Sample Location:

Ex. 6 Personal Privacy (PP)

BLADES, DE

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Date Collected:

05/19/2010 12:25 pt

Collected By:

SCHEERS/MCCLAII

Collector ID:

601

Date Received:

05/20/2010 12:55 pi

Sampled pH:

Free CI: Total CI:

Test	Result	MCL	Date Released
EPA200.8		AND AND THE REPORT THE THE THE STATE OF THE STATE OF THE AND	d Portion are more districted, which have before a serificial accusation of the
Barium	0.1316 mg/L	<=2.0000	05/21/2010
Manganese	0.1723 mg/L	<=0.05	05/21/2010
Uranium	<0.0005 mg/L	<=0.03	05/21/2010
Nickel	0.0020 mg/L		05/21/2010
Arsenic	<0.0005 mg/L	<=0.01	05/21/2010
Beryllium	<0.0005 mg/L	<=0.004	05/21/2010
Mercury	<0.0005 mg/L	<=0.002	05/21/2010
Lead	<0.0005 mg/L	<=0.015	05/21/2010
Chromium	0.0038 mg/L	<=0.1	05/21/2010
Cadmium	<0,0005 mg/L	<=0.005	05/21/2010
Selenium	<0.010 mg/L	<=0.05	05/21/2010
Antimony	<0.0005 mg/L	<=0.006	05/21/2010
Thallium	<0.0005 mg/L	<=0.002	05/21/2010





Division of Public Health Laboratory

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Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267691 (383011)

————Date Gollected:

-05/19/2010--12:25-pi--

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

Collected By:

SCHEERS/MCCLAII

PWSID:

PRIVATE

Collector ID:

601

Sample Point:

OT Ex. 6 Personal Privacy (PP) Date Received: Sampled pH: 05/20/2010 12:55 pi

Sample Location:

BLADES, DE

Free CI:

Sample Type: Chlorination:

Not Chlorinated or

Total CI:

Tested

Specimen Note:

Sample previously released. Sample report ammended to include zinc values as requested by

ODW.

Test	Result	MCL	Date Released
EPA200.8	en anno anno anno anno anno anno anno an	egine i vine ving vi vin som de vive vi svinstraude Member viz bede klassika i v	eretine interesentation to a new engine (i.e., in our loss enrichment
Barium	0.1316 mg/L	<=2.0000	05/28/2010
Previously Reported As:	0.1316 mg/L		
Zinc	0.0211 mg/L	<=5	05/28/2010
Manganese	0.1723 mg/L	< = 0.05	05/28/2010
Previously Reported As:	0.1723 mg/L		
Uranium	<0.0005 mg/L	<=0.03	05/28/2010
Selenium	<0.010 mg/L	<=0.05	05/28/2010
Thallium	<0.0005 mg/L	<=0.002	05/28/2010
Antimony	<0.0005 mg/L	<=0.006	05/28/2010
Lead	<0.0005 mg/L	<=0.015	05/28/2010
Mercury	<0.0005 mg/L	<=0.002	05/28/2010
Chromium	0.0038 mg/L	<=0.1	05/28/2010
Beryllium	<0.0005 mg/L	<=0.004	05/28/2010
Cadmium	<0.0005 mg/L	<=0.005	05/28/2010
Nickel	0.0020 mg/L		05/28/2010
Arsenic	<0.0005 mg/L	<=0.01	05/28/2010



CHEMICAL FORM

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * \$ 2 6 7 6 9 0 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*		
Collection Time: (military) 1223	*Confirmation & *Replacement Requires Original Sample #		
Collection Date:5/19/10			
PWSID #PRIVATE Supply Nan	1Ex. 6 Personal Privacy (PP)		
Facility Name: Ex. 6 Personal Privacy (PP) (For example: Treatment Plant, Sampling Station, or Distribution System	Facility # outside tap (For example: TP001, SS001, DS001, or WL001/DNREC ID#)		
Sample Point Seafix d DE 1992	Sample Point # oworde tap (For example: DEP001, MRT001, SP042, or WT001)		
AST/Operator # Collector's Nam			
601 / DE-331Scheers / McCl	ain741-8630 741-8631		
Free Chlorinemg/L Total Chlorinemg/L Mot Chlorinated			
pH Field Test Monitoring Schedu	ule: Mthly. Qtr. Ann. Tri. Oth.		
Analyte Group: Please check box of individual test required.			
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]			
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Ti]	Cu Anions (NO ₃ , NO ₂ , F, Cl)		
□ VOCs □ TTHM □ HAA5 □ Pes EPA 524.2 EPA 552.2 EPA S	sticides		
□ 531 □ 504 □ Gross Alpha	□ Radium 226/228 □ Other:		
Field Blank ID Number:			

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Delaware Health and Social Services **Division of Public Health Laboratory**

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S267690 (383010)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point: Sample Location: **OUTSIDE TAP**

Ex. 6 Personal Privacy (PP) SEAFORD DE

Sample Type:

Chlorination: Not Chlorinated or

Tested

Date Collected:

05/19/2010 12:23 pt

SCHEERS/MCCLAII-Collected By: 601

Collector ID:

Date Received:

05/20/2010 12:55 pt

Sampled pH:

Free CI: Total CI:

Test	Result .	MCL	Date Released
SM4500CN-F Cyanide	<0.05 mg/L	<0.2	05/21/2010



CHEMICAL FORM

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

Bar Cへつ N	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*	
Collection Time: (military) 1328	*Confirmation & *Replacement Requires Original Sample #	
PWSID #PRIVATE Supply Name		
Facility Name: Ex. 6 Personal Privacy (I (For example: Treatment Plant, Sampling Station, or Distribution System)	(ror example: TPOUT, SSUUT, DSUUT, OF WILDUT/DINKEC TO#)	
Sample Point Collector's Name	Sample Point # (For example: DEP001, MRT001, SP042, or WT001) Collector's Phone Collector's Fax #	
601 / DE-331Scheers / McCla	in741-8630741-8631	
Free Chlorinemg/L Total Ch	lorinemg/L Not Chlorinated	
pH Field Test Monitoring Schedul	e: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth	
Analyte Group: Please check box of indi	vidual test required.	
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,] □ Routine Chem. plus: Alk, Hardness, TDS]		
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	□ Cu □ Anions □ CN [NO ₃ , NO ₂ , F, Cl]	
VOCs TTHM HAA5 Pest	cicides	
□ 531 □ 504 □ Gross Alpha □	Radium 226/228 Other:	

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
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Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

S270184 (383012) __LabeLID (Sample #):_

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID: Sample Point:

OT

PRIVATE

Sample Location:

SEAFORD DE

Sample Type:

SP

Chlorination:

Ex. 6 Personal Privacy (PP)

Not Chlorinated or Tested

Free CI: Total CI:

Date Collected:

Collected By:

Collector ID:

Sampled pH:

Date Received:

05/19/2010 1:28 pn

SCHEERS/MCCLAII

05/20/2010 12:55 pi

Specimen Note:

Test	Result	MCL	Date Released
EPA524.2	entre en la la la Margagaria de la la la la Maria de la	e mega series e como de entre entre en estado en entre e	er som er er er skiller jælen skelle klyg, som ekt den er ekk, ekk er er et er e
Dichlorodifluormethane	<0.5 μg/L		05/24/2010
Chloromethane	<0.5 µg/L		05/24/2010
Bromomethane	<0.5 μg/L		05/24/2010
Chloroethane	<0.5 μg/L		05/24/2010
Trichlorfluoromethane	<0.5 μg/L		05/24/2010
Methyl tert-butyl ether (MTBE)	<0.5 μg/L		05/24/2010
1,1-dichloroethane	<0.5 μg/L		05/24/2010
2,2-dichloropropane	<0.5 µg/L		05/24/2010
1,1-dichloropropene	<0.5 μg/L		05/24/2010
Bromodichloromethane	<0.5 μg/L		05/24/2010
Dibromomethane	<0.5 μg/L		05/24/2010
Cis-1,3-dichlorpropene	<0.5 μg/L		05/24/2010
Chloroform	<0.5 μg/L	•	05/24/2010
Bromochloromethane	<0.5 µg/L		05/24/2010
Trans-1,3-dichloropropene	<0.5 μg/L		05/24/2010
1,3-dichloropropane	<0.5 μg/L		05/24/2010
Chlorodibromomethane	<0.5 μg/L	•	05/24/2010
Ethylene dibromide (EDB)	<0.5 μg/L		05/24/2010
1,1,1,2-tetrachloroethane	<0.5 µg/L		05/24/2010
Bromoform	<0.5 μg/L		05/24/2010
Isopropylbenzene	<0.5 μg/L		05/24/2010
1,1,2,2-tetrachlorethane	<0.5 μg/L		05/24/2010
1,2,3-trichloropropane	<0.5 μg/L		05/24/2010
Bromobenzene	<0.5 μg/L		05/24/2010
N-propylbenzene	<0.5 μg/L		05/24/2010



Print Date: 05/25/2010



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S270184 (383012)

Property Owner/Facility: | Ex. 6 Personal Privacy (PP)

PWSID: **PRIVATE**

Sample Point: OT

Ex. 6 Personal Privacy (PP) Sample Location:

SEAFORD DE

Sample Type: SP

Chlorination: Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:28 pn

Collected By:

SCHEERS/MCCLAII

601 Collector ID:

Date Received:

05/20/2010 12:55 pt

Sampled pH:

Free CI: Total CI:

Test	Result	MCL	Date Released
O-chlorotoluene	<0.5 µg/L	and a second programme the second	05/24/2010
1,3,5-trimethylbenzene	<0.5 μg/L		05/24/2010
P-chlorotoluene	<0.5 µg/L		05/24/2010
Tert-butylbenzene	<0.5 µg/L		05/24/2010
1,2,4-trimethylbenzene	<0.5 μg/L		05/24/2010
Sec-butylbenzene	<0.5 μg/L		05/24/2010
P-isopropyltoluene	<0.5 μg/L		05/24/2010
M-dichlorobenzene	<0.5 µg/L		05/24/2010
N-butylbenzene	<0.5 µg/L		05/24/2010
Dibromochloropropane	<0.5 µg/L		05/24/2010
Hexachlorobutadiene	<0.5 µg/L		05/24/2010
Naphthalene	<0.5 µg/L		05/24/2010
1,2,3-trichlorobenzene	<0.5 µg/L		05/24/2010
Trans-1,2-dichloroethylene	<0.5 µg/L	<100.000	05/24/2010
Dichloromethane	<0.5 µg/L	<5.000	05/24/2010
1,1-dichloroethylene	<0.5 μg/L	<7.000	05/24/2010
Vinyl Chloride	<0.5 μg/L	<2.000	05/24/2010
1,2-dichloroethane	<0.5 µg/L	<5.000	05/24/2010
Trichloroethylene	<0.5 µg/L	<5.000	05/24/2010
1,2-dichloropropane	<0.5 µg/L	<5.000	05/24/2010
Carbon tetrachloride	<0.5 µg/L	<5.000	05/24/2010
Benzene	<0.5 µg/L	<5.000	05/24/2010
1,1,1-trichloroethane	<0.5 µg/L	<200.000	05/24/2010
Cis-1,2-dichloroethylene	<0.5 µg/L	<70.000	05/24/2010
Styrene	<0.5 µg/L	<100.000	05/24/2010
P-dichlorobenzene	<0.5 μg/L	<75.000	05/24/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S270184 (383012).

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point: Sample Location:

Ex. 6 Personal Privacy (PP)

SEAFORD DE

Sample Type:

SP

OT

Chlorination: Not Chlorinated or

Tested

Date_Collected:__

05/19/2010_1:28_pn__

Collected By:

SCHEERS/MCCLAII

Collector ID:

601

05/20/2010 12:55 pi Date Received:

Sampled pH:

Free CI: Total CI:

Specimen Note:

Microsofthing of the first of t			
Test	Result	MCF	Date Released
Xylenes	<0.5 µg/L	<=10,000.000	05/24/2010
Ethylbenzene	<0.5 µg/L	<700.000	05/24/2010
Chlorobenzene .	<0.5 µg/L	<100.000	05/24/2010
Tetrachloroethylene	<0.5 μg/L	<5.000	05/24/2010
Toluene	<0.5 μg/L	<1,000.000	05/24/2010
1,1,2-trichloroethane	<0.5 μg/L	<5.000	05/24/2010
O-dichlorobenzene	<0.5 μg/L	<600,000	05/24/2010
1,2,4-trichtorobenzene	<0.5 μg/L	<80.000	05/24/2010



Print Date: 05/25/2010

CHEMICAL FORM

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * s 2 6 7 6 9 3 *	TEST Request: □ Routine □ Complaint □ Confirmation* X Special □ MRT □ Field Blank □ Split □ Duplicate □ Replacement*		
Collection Time: (military) 3:35	*Confirmation & *Replacement Requires Original Sample #		
Collection Date:5/19/10			
PWSID #PRIVATE Supply Nar	ne: Ex. 6 Personal Privacy (PP)		
Ev. 6 Personal Privacy /PP			
Sample Point 5	Sample Point # Owtsile + AP (For example: DEP001, MRT001, SP042, or WT001)		
AST/Operator # Collector's Nan			
601 / DE-331Scheers /McC	lain741-8630741-8631		
Free Chlorinemg/L Total C	Chlorinemg/L Not Chlorinated		
pH Field Test Monitoring Sched	ule: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth		
Analyte Group: Please check box of inc	dividual test required.		
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,] □ Routine Chem. plus: Alk, Hardness, TDS]			
TRACE: (mg/L)	□ Cu □ Anions □ CN [NO ₃ , NO ₂ , F, Cl]		
□ VOCs □ TTHM □ HAA5 □ Pe EPA 524.2 EPA 552.2 EPA	sticides		
□ 531 □ 504 □ Gross Alpha	□ Radium 226/228 □ Other:		

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977 Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267693 (383016)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PRIVATE PWSID:

OUTSIDE TAP Sample Point:

Sample Location:

Ex. 6 Personal Privacy (PP) SEAFORD

DE

Sample Type: SP

Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:35 pn

Collected By:

SCHEERS/MCCLAII

Collector ID:

601

Date Received:

05/20/2010 - 12:55 pi

Sampled pH:

Free CI:

Total CI:

Specimen Note:

Chlorination:

Test	Result	MCL	Date Released
EPA200.8	ninda – na mila umana a minda uma a tri dato. Ma saarrajor is adsustabilinus de la seguita a mustario (mere saarra) na mus	ar, taggad a company to the season of an arganization was arrest to the extendition from the construction	k and all a line is an initial abbusiness and a size of the national abbusiness and an extension of the size of th
Barium	0.7692 mg/L	<=2.0000	05/21/2010
Uranium	<0.0005 mg/L	<=0.03	05/21/2010
Thallium	<0.0005 mg/L	<=0.002	05/21/2010
Manganese	0.1699 mg/L	<=0.05	05/21/2010
Selenium	<0.010 mg/L	<=0.05	05/21/2010
Antimony	<0.0005 mg/L	<=0.006	05/21/2010
Chromium	0.0023 mg/L	<=0.1	05/21/2010
Cadmium	0.0005 mg/L	<=0.005	05/21/2010
Lead	0.0009 mg/L	<=0.015	05/21/2010
Mercury	<0.0005 mg/L	<=0.002	05/21/2010
Arsenic	<0.0005 mg/L	<=0.01	05/21/2010
Beryllium	0.0040 mg/L	<=0.004	05/21/2010
Nickel	0.0109 mg/L		05/21/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267693 (383016)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OUTSIDE TAP

Sample Location:

Ex. 6 Personal Privacy (PP) . SEAFORD

DE

Sample Type: Chlorination:

SP Not Chlorinated or

Tested

Specimen Note:

Sample previously released. Sample report ammended to include zinc values as requested by

Date Collected:

Collected By:

Collector ID:

Sampled pH:

Free CI:

Total CI:

Date Received:

05/19/2010 1:35 pn

SCHEERS/MCCLAII

05/20/2010 12:55 pi

601

ODW.

Test	Result	MCL.	Date Released
EPA200.8	er earlier i en sinske een een eerste se Stadoord Stadoord Stadoord Stadoord Stadoord Stadoord Stadoord Stadoor	a tinggagagaran ang garawa arawanan ita merina ang tagan ita ang ang ang	under teld och de demokratische Medierle, ebilber (g. 1994) federalbeigkeit der
Arsenic	<0.0005 mg/L	<=0.01	05/28/2010
Nickel	0.0109 mg/L		05/28/2010
Cadmium	0.0005 mg/L	<=0.005	05/28/2010
Beryllium	0.0040 mg/L	<=0.004	05/28/2010
Chromium	0.0023 mg/L	<=0.1	05/28/2010
Lead	0.0009 mg/L	<=0.015	05/28/2010
Antimony	<0.0005 mg/L	<=0.006	05/28/2010
Thallium	<0.0005 mg/L	<=0.002	05/28/2010
Mercury	<0.0005 mg/L	<=0.002	05/28/2010
Selenium	<0.010 mg/L	<=0.05	05/28/2010
Uranium	<0.0005 mg/L	<=0.03	05/28/2010
Manganese	0.1699 mg/L	< =0 .05	05/28/2010
Previously Reported As:	0.1699 mg/L		
Zinc	1.3600 mg/L	< = 5	05/28/2010
Previously Reported As:	1.2160 mg/L		
Barium	0.7692 mg/L	<=2.0000	05/28/2010
Previously Reported As:	0.7692 mg/L		



Field Blank ID Number:

Delaware Public Health Laboral 30 Sunnyside Ri Smyrna, DE 19977 (302) 223-1520

Bar Cc F * \$ 2 6 7 6 9 2 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*		
Collection Time: (military) 1345	*Confirmation & *Replacement Requires Original Sample #		
Collection Date:5/19/10			
PWSID #PRIVATE Supply Na Ex. 6 Personal Privacy (P			
Facility Name: Seaford DE 199- (For example: Treatment Plant, Sampling Station, or Distribution Sys	75 Facility # OT (For example: TP001, SS001, DS001, or WL001/DNREC ID#)		
Sample Point outside tap	Sample Point #		
AST/Operator # Collector's Na			
601 / DE-331Scheers /Mc	Clain741-8630741-8631		
Free Chlorinemg/L Total	Chlorinemg/L Not Chlorinated		
pH Field Test Monitoring Sche	dule: Mthly. Qtr. Ann. Tri. Oth		
Analyte Group: Please check box of i	ndividual test required.		
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [NO₃, NO₂, Fe, Na, pH, F, CI,] □ Routine Chem. plus: Alk, Hardness, TDS]			
☐ TRACE: (mg/L) ☐ M [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Ti]	n		
	esticides		
□ 531 · □ 504 □ Gross Alpha	☐ Radium 226/228 ☐ Other:		

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267692 (383014)

Date Collected: Collected By:

05/19/2010 1:45 pn SCHEERS/MCCLAII-

Property Owner/Facility: Ex. 6 Personal Privacy (PP) PWSID:

PRIVATE Collector ID:

601 Sample Point: Date Received: 05/20/2010 12:55 pt

> Ex. 6 Personal Privacy (PP) Sampled pH:

SEAFORD DE

Sample Type: Free CI:

Chlorination: Total CI: Not Chlorinated or Tested

Specimen Note:

Sample Location:

Test Result MCL **Date Released** SM4500CN-F Cyanide <0.05 mg/L < 0.2 .05/21/2010

X_SingleSample.rpt

Page 1 of 1

ED_005024_00000667-00112

Print Date: 05/24/2010

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

Bar C(F * \$ 2 7 0 1 8 5 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*			
Collection Time: (military) 1350	*Confirmation & *Replacement Requires Original Sample #			
Collection Date:5/19/10				
PWSID #PRIVATE Supply Nan	\			
Facility Name: Seaford, De 19° (For example: Treatment Plant, Sampling Station, or Distribution System	173 Facility # outside tap (For example: TP001, SS001, DS001, or WL001/DNREC ID#)			
Sample Point OT	Sample Point #			
AST/Operator # Collector's Nam	(For example: DEP001, MRT001, SP042, or WT001) Collector's Phone Collector's Fax #			
601 / DE-331Scheers /McC	lain741-8630741-8631			
Free Chlorinemg/L Total C	hlorinemg/L Not Chlorinated			
pH Field Test Monitoring Schedu	ule: Mthly. Qtr. Ann. Tri. Oth			
Analyte Group: Please check box of inc	dividual test required.			
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]				
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	☐ Cu ☐ Anions ☐ CN [NO ₃ , NO ₂ , F, CI]			
VOCs TTHM HAA5 Pes	sticides			
☐ 531 ☐ 504 ☐ Gross Alpha	□ Radium 226/228 □ Other:			

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203

655 Bay Road, Suite 203 Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$270185 (383015)_

Property Owner/Facility Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OT

Sample Location:

Ex. 6 Personal Privacy (PP) SEAFORD

DE SP

Sample Type: Chlorination:

Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:50 pn

Collected By:

Sampled pH:

SCHEERS/MCCLAII

Collector ID: 601

Date Received:

05/20/2010 12:55 pt

Free CI: Total CI:

Test	Result	MCL	Date Released
EPA524.2	A COUNTY OF THE CONTRACT OF TH	er, and province consistence of the policy beautiful and the above of the above consistence of	anguage e e a examenta qua proportir con el electro de la la electronica de la electronica de la electronica d
O-dichlorobenzene	<0.5 μg/L	<600.000	05/24/2010
1,2,4-trichlorobenzene	<0.5 μg/L	<80.000	05/24/2010
1,1,2-trichloroethane	<0.5 μg/L	<5.000	05/24/2010
Toluene	<0.5 μg/L	<1,000.000	05/24/2010
Ćhlorobenzene	<0.5 μg/L	<100.000	05/24/2010
Tetrachloroethylene	<0.5 μg/L	<5.000	05/24/2010
Ethylbenzene	<0.5 μg/L	<700.000	05/24/2010
Xylenes	<0.5 μg/L	<=10,000.000	05/24/2010
P-dichlorobenzene	<0.5 μg/L	<75.000	05/24/2010
Styrene	<0.5 μg/L	<100.000	05/24/2010
Cis-1,2-dichloroethylene	<0.5 μg/L	<70.000	05/24/2010
1,1,1-trichloroethane	<0.5 μg/L	<200.000	05/24/2010
Carbon tetrachloride	<0.5 μg/L	<5.000	05/24/2010
1,2-dichloropropane	<0.5 µg/L	<5.000	05/24/2010
Trichloroethylene	<0.5 μg/L	<5.000	05/24/2010
1,2-dichloroethane	<0.5 µg/L	<5.000	05/24/2010
Benzene	<0.5 μg/L	<5.000	05/24/2010
Vinyl Chloride	<0.5 μg/L	<2.000	05/24/2010
1,1-dichloroethylene	<0.5 µg/L	<7.000	05/24/2010
Dichloromethane	<0.5 μg/L	<5.000	05/24/2010
Trans-1,2-dichloroethylene	<0.5 μg/L	<100.000	05/24/2010
Dichlorodifluormethane	<0.5 µg/L		05/24/2010
Chloromethane	<0.5 μg/L		05/24/2010
Bromomethane	<0.5 µg/L		05/24/2010
Chloroethane	<0.5 μg/L		05/24/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #); S270185 (383015)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OT

Sample Location:

Ex. 6 Personal Privacy (PP) SEAFORD

Sample Type:

DE SP

Chlorination:

Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:50 pn

Collected By:

SCHEERS/MCCLAII

05/20/2010 12:55 pt

Collector ID: 601

Date Received:

Sampled pH:

Free CI: Total CI:

Test	Result	MCL `	Date Released
Trichlorfluoromethane	<0.5 µg/L	Control of the Control of Market Market Market Control of the Cont	05/24/2010
Methyl tert-butyl ether (MTBE)	<0.5 µg/L		05/24/2010
1,1-dichloroethane	<0.5 µg/L		05/24/2010
2,2-dichloropropane	<0.5 µg/L		05/24/2010
1,1-dichloropropene	<0.5 µg/L		05/24/2010
Bromodichloromethane	<0.5 µg/L		05/24/2010
Dibromomethane	<0.5 µg/L		05/24/2010
Cis-1,3-dichlorpropene	<0.5 μg/L	•	05/24/2010
Chloroform	<0.5 µg/L		05/24/2010
Bromochloromethane	<0.5 µg/L		05/24/2010
Trans-1,3-dichloropropene	<0.5 µg/L		05/24/2010
1,3-dichtoropropane	<0.5 µg/L		05/24/2010
Chlorodibromomethane	<0.5 μg/L		05/24/2010
Ethylene dibromide (EDB)	<0.5 µg/L		05/24/2010
Bromoform	<0.5 µg/L		05/24/2010
Isopropylbenzene	<0.5 µg/L		05/24/2010
1,1,2,2-tetrachlorethane	<0.5 µg/L		05/24/2010
1,2,3-trichloropropane	<0.5 µg/L		05/24/2010
Bromobenzene	<0.5 µg/L		05/24/2010
N-propylbenzene	<0.5 µg/L		05/24/2010
O-chlorotoluene	<0.5 µg/L	·	05/24/2010
1,3,5-trimethylbenzene	<0.5 µg/L		05/24/2010
P-chlorotoluene	<0.5 µg/L		05/24/2010
Tert-butylbenzene	<0.5 µg/L		05/24/2010
1,2,4-trimethylbenzene	<0.5 μg/L		05/24/2010
Sec-butylbenzene	<0.5 μg/L		05/24/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Date Collected:

05/19/2010 1:50 pn

SCHEERS/MCCLAII

Agency: Office of Drinking Water

.Label.ID.(Sample.#):_ S270185 (383015)

Property Owner/Facility: Ex. 6 Personal Privacy (PP) Collected By:

> PRIVATE Collector ID: 601

PWSID: 05/20/2010 12:55 pi Sample Point: OT Date Received:

Ex. 6 Personal Privacy (PP) SEAFORD Sample Location: Sampled pH:

SP

Sample Type: Free CI: Chlorination: Not Chlorinated or Total CI:

Tested

Specimen Note:

Test	Result	MCL	Date Released
P-isopropyltoluene	<0.5 µg/L	Souther the terrer of the second that the second terrer is the second terrer to the second terrer to the second terrer to the second terrer te	05/24/2010
M-dichlorobenzene	<0.5 μg/L		05/24/2010
1,1,1,2-tetrachloroethane	<0.5 µg/L		05/24/2010
N-butylbenzene	<0.5 µg/L		05/24/2010
Dibromochloropropane	<0.5 µg/L		05/24/2010
Hexachlorobutadiene	<0.5 μg/L		05/24/2010
Naphthalene	<0.5 µg/L		05/24/2010
1,2,3-trichlorobenzene	<0.5 µg/L		05/24/2010



ED_005024_00000667-00116

Print Date: 05/25/2010

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * \$ 2 6 7 6 8 0 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Duplicate Replacement*			
Collection Time: (military) 13 57	*Confirmation & *Replacement Requires Original Sample #			
Collection Date:5/19/10				
PWSID #PRIVATE Supply Nam Ex. 6 Personal Privacy (PP)	e: Ex. 6 Personal Privacy (PP)			
Facility Name: Seaford DE (For example: Treatment Plant, Sampling Station, or Distribution System	Facility # OT (For example: TP001, SS001, DS001, or WL001/DNREC ID#)			
Sample Point Outside trap	Sample Point # OT (For example: DEP001, MRT001, SP042, or WT001)			
AST/Operator # Collector's Name				
601 / DE-331Scheers /McCla	ain741-8630741-8631			
Free Chlorinemg/L Total Ch	nlorinemg/L Not Chlorinated			
pH Field Test Monitoring Schedu	lle: Mthly. Qtr. Ann. Tri. Oth			
Analyte Group: Please check box of ind	ividual test required.			
□ ROUTINE: (mg/L) □ FULL CHEM: (mg/L) □ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]				
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	☐ Cu ☐ Anions ☐ CN [NO ₃ , NO ₂ , F, Cl]			
□ VOCs □ TTHM □ HAA5 □ Pes EPA 524.2 EPA 552.2 EPA 5	ticides			
□ 531 □ 504 □ Gross Alpha □	☐ Radium 226/228 ☐ Other:			

Division of Public Health Office of Drinking Water Blue Hen Corporate Center 655 Bay Road, Suite 203 Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S267680 (383029)

Property Owner/Facility Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE OT

Sample Point: Sample Location:

OUTSIDE TAP

Ex. 6 Personal Privacy (PP)

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:57 pn

Collected By:

MCCLAIN/SCHEER:

Collector ID: DE331

Date Received:

05/20/2010 12:55 pt

Sampled pH:

Free CI: Total CI:

Test	Result	MCL	Date Released
EPA200.8	THE THE PROPERTY OF THE PROPER	recent of the legisland of the end of the recent weather the end of	ായം (കാർ 1 നിന്നു വാർ നിർ ത്രീത്യുമ്പോ അവ്വാദ്യ തെന്നുവുന്നു തെന്നുവും വ
Nickel	0.0059 mg/L		05/21/2010
Beryllium	0.0007 mg/L	<=0.004	05/21/2010
Arsenic	<0.0005 mg/L	<=0.01	05/21/2010
Mercury	<0.0005 mg/L	<=0.002	05/21/2010
Lead	0.0032 mg/L	<=0.015	05/21/2010
Chromium	0.0031 mg/L	<=0.1	05/21/2010
Cadmium	0.0016 mg/L	<=0.005	05/21/2010
Antimony	<0.0005 mg/L	<=0.006	05/21/2010
Selenium	<0.010 mg/L	<=0.05	05/21/2010
Manganese	0.1469 mg/L	<=0.05	05/21/2010
Thallium	<0.0005 mg/L	<=0.002	05/21/2010
Uranium	<0.0005 mg/L	<=0.03	05/21/2010
Barium	0.2417 mg/L	<=2.0000	05/21/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$267680 (383029)

Property Owner/Facility Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point: Sample Location:

OT

OUTSIDE TAP (2.19902117912)[7]

Ex. 6 Personal Privacy (P

Sample Type:

SP

Chlorination: Not Chlorinated or

Lested

Specimen Note:

Sample previously released. Sample report ammended to include zinc values as requested by

Date Collected:

Collected By:

Collector ID:

Sampled pH:

Free CI:

Total CI:

Date Received:

-05/19/2010--1:57-pn-

MCCLAIN/SCHEER:

05/20/2010 12:55 pt

DE331

ODW.

Test	Result	MCL	Date Released
EPA200.8	The commence of the control of the c	e de la servición e con terrología que espere la atribició e se sucesión de se el como de describiros.	Company of the second of the s
Barium	0.2417 mg/L	<=2.0000	05/28/2010
Previously Reported As:	0.2417 mg/L		
Zinc	6.9500 mg/L	<=5	05/28/2010
Previously Reported As:	5.8916 mg/L		
Thallium	<0.0005 mg/L	<=0.002	05/28/2010
Manganese	0.1469 mg/L	<=0.05	05/28/2010
Previously Reported As:	0.1469 mg/L		
Uranium	<0.0005 mg/L	<=0.03	05/28/2010
Selenium	<0.010 mg/L	<=0.05	05/28/2010
Antimony	<0.0005 mg/L	<=0.006	05/28/2010
Lead	0.0032 mg/L	<=0.015	05/28/2010
Mercury	<0.0005 mg/L	<=0.002	05/28/2010
Chromium	0.0031 mg/L	<=0.1	05/28/2010
Cadmium	0.0016 mg/L	<=0.005	05/28/2010
Beryllium	0.0007 mg/L	<=0.004	05/28/2010
Arsenic	<0.0005 mg/L	<=0.01	05/28/2010
Nickel	0.0059 mg/L		05/28/2010



Print Date: 05/28/2010

Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

Bar Cd F * \$ 2 6 7 6 7 9 * CX	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*
Collection Time: (military) 1355	*Confirmation & *Replacement Requires Original Sample #
Collection Date:5/19/10	
PWSID #PRIVATESupply Name Ex. 6 Personal Privacy (PP)	•
Facility Name: Seaford DE (For example: Treatment Plant, Sampling Station, or Distribution System)	Facility # Outside tap (For example: TP001, SS001, DS001, or WL001/DNREC ID#)
Sample Point <u>ot</u>	Sample Point #OT
AST/Operator # Collector's Name	
601 / DE-331Scheers /McCla	ain741-8630
Free Chlorinemg/L Total Ch	llorinemg/L Not Chlorinated
pH Field Test Monitoring Schedul	le: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth
Analyte Group: Please check box of indi	vidual test required.
□ ROUTINE: (mg/L) □ FUL [NO₃, NO₂, Fe, Na, pH, F, Cl,] □ [Rou	L CHEM: (mg/L) Sulfate Itine Chem. plus: Alk, Hardness, TDS]
☐ TRACE: (mg/L) ☐ Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	□ Cu □ Anions □ CN [NO ₃ , NO ₂ , F, Cl]
□ VOCs □ TTHM □ HAA5 □ Pest EPA 524.2 EPA 552.2 EPA 50	ticides
□ 531 □ 504 □ Gross Alpha □	Radium 226/228

Division of Public Health Office of Drinking Water
Blue Hen Corporate Center
655 Bay Road, Suite 203
Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S267679 (383030)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OT

Sample Location:

Sample Type:

Chlorination:

SP Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:55 pn

Collected By:

MCCLAIN, DANNY

05/20/2010 12:55 pt

Collector ID: DE331

Date Received:

Sampled pH:

Free CI: Total CI:

Test	Result	MCL	Date Released
SM4500CN-F Cyanide	<0.05 mg/L	<0.2	05/21/2010



Field Blank ID Number:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977

Bar (F * \$ 2 7 0 1 8 6 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*
Collection Time: (military) 13:59	*Confirmation & *Replacement Requires Original Sample #
Collection Date:5/19/10	
PWSID #PRIVATE Supply Nam Ex. 6 Personal Privacy (PP)	·
Facility Name: Seaford DE 19973 (For example: Treatment Plant, Sampling Station, or Distribution System	3 Facility # Outside tap
Sample Point	Sample Point # 07 (For example: DEP001, MRT001, SP042, or WT001)
AST/Operator # Collector's Nam	Collector's Phone Collector's Fax #
601 / DE-331Scheers /McCl	ain741-8630 741-8631
·	
Free Chlorinemg/L Total C	hlorinemg/L Not Chlorinated
·	hlorinemg/L
·	ule: Mthly. Qtr. Ann. Tri. Oth.
pH Field Test Monitoring Schedular Analyte Group: Please check box of incomparison of the ROUTINE: (mg/L) □ FUI	ule: Mthly. Qtr. Ann. Tri. Oth. lividual test required.
pH Field Test Monitoring Schedular Analyte Group: Please check box of incomparison of the ROUTINE: (mg/L) □ FUI	ule: Mthly. Qtr. Ann. Tri. Oth. dividual test required. LL CHEM: (mg/L) Sulfate utine Chem. plus: Alk, Hardness, TDS]
PH Field Test Monitoring Schedule Analyte Group: Please check box of incomposition of the ROUTINE: (mg/L) FUI [NO ₃ , NO ₂ , Fe, Na, pH, F, CI,] [Ro TRACE: (mg/L) Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, TI]	ule: Mthly. Qtr. Ann. Tri. Oth. dividual test required. LL CHEM: (mg/L) Sulfate utine Chem. plus: Alk, Hardness, TDS] Cu Anions CN [NO ₃ , NO ₂ , F, CI]

Division of Public Health Office of Drinking Water Blue Hen Corporate Center 655 Bay Road, Suite 203 Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S270186 (383017)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE OT

Sample Location:

Ex. 6 Personal Privacy (PP)

SEAFORD DE

Sample Type:

Sample Point:

SP

Chlorination:

Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:59 pn

Collected By:

SCHEERS/MCCLAII

Collector ID: 601

Date Received:

05/20/2010 12:55 pi

Sampled pH:

Free CI: Total CI:

Test	Result	MCL	Date Released
EPA524.2	ني النور د المصاديقة وريض څخه د ده الي د المصاديقيون د الد ده ده د پرهماييو که مده ده	HIS PERCONSISSIONAL CONTRACTOR AND STREET OF STREET AND STREET	and the experience of the management of construction of the experience of the experi
Dichlorodifluormethane	<0.5 µg/L	•	05/24/2010
Chloromethane	<0.5 µg/L		05/24/2010
Bromomethane	<0.5 μg/L		05/24/2010
Chloroethane	<0.5 μg/L		05/24/2010
Trichlorfluoromethane	<0.5 µg/L		05/24/2010
Methyl tert-butyl ether (MTBE)	<0.5 μg/L		05/24/2010
1,1-dichloroethane	<0.5 μg/L		05/24/2010
2,2-dichloropropane	<0.5 μg/L		05/24/2010
1,1-dichloropropene	<0.5 µg/L		05/24/2010
Bromodichloromethane	<0.5 μg/L		05/24/2010
Dibromomethane	<0.5 μg/L		05/24/2010
Cis-1,3-dichlorpropene	<0.5 μg/L		05/24/2010
Chloroform	<0.5 µg/L		05/24/2010
Bromochloromethane	<0.5 µg/L		05/24/2010
Trans-1,3-dichloropropene	<0.5 μg/L		05/24/2010
1,3-dichloropropane	<0.5 μg/L		05/24/2010
Chlorodibromomethane	<0.5 μg/L		05/24/2010
Ethylene dibromide (EDB)	<0.5 μg/L		05/24/2010
1,1,1,2-tetrachloroethane	<0.5 µg/L		05/24/2010
Bromoform	<0.5 µg/L		05/24/2010
Isopropylbenzene	<0.5 µg/L		05/24/2010
1,1,2,2-tetrachlorethane	<0.5 μg/L		05/24/2010
1,2,3-trichloropropane	<0.5 μg/L		05/24/2010
Bromobenzene	<0.5 μg/L		05/24/2010
N-propylbenzene	<0.5 μg/L		05/24/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S270186 (383017)

Property Owner/Facility Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

Sample Location:

Ex. 6 Personal Privacy (PP)

SEAFORD DE

Sample Type:

Chlorination:

Not Chlorinated or

Tested

Date Collected:

05/19/2010 1:59 pn SCHEERS/MCCLAII

Collected By: Collector ID:

Date Received:

Sampled pH:

601

05/20/2010 12:55 pt

Free CI: Total CI:

Test	Result	MCL	Date Released
O-chlorotoluene	<0.5 µg/L	and wanted the action of the manufacture and the contract of action	05/24/2010
1,3,5-trimethylbenzene	<0.5 µg/L		05/24/2010
P-chlorotoluene	<0.5 µg/L		05/24/2010
Tert-buty/benzene	<0.5 µg/L		05/24/2010
1,2,4-trimethylbenzene	<0.5 µg/L		05/24/2010
Sec-butylbenzene	<0.5 µg/L		05/24/2010
P-isopropyitoluene	<0.5 µg/L		05/24/2010
M-dichlorobenzene	<0.5 µg/L		05/24/2010
N-butylbenzene	<0.5 μg/L		05/24/2010
Dibromochloropropane	<0.5 µg/L		05/24/2010
Hexachlorobutadiene	<0.5 µg/L		05/24/2010
Naphthalene	<0.5 µg/L		05/24/2010
1,2,3-trichlorobenzene	<0.5 µg/L		05/24/2010
Vinyl Chloride	<0.5 μg/L	<2.000	05/24/2010
Trans-1,2-dichloroethylene	<0.5 µg/L	<100.000	05/24/2010
Cis-1,2-dichloroethylene	<0.5 µg/L	<70.000	05/24/2010
1,1-dichloroethylene	<0.5 µg/L	<7.000	05/24/2010
Dichloromethane	<0.5 µg/L	<5.000	05/24/2010
Benzene	<0.5 μg/L	<5.000	05/24/2010
1,2-dichloroethane	<0.5 µg/L	<5.000	05/24/2010
Trichloroethylene	<0.5 µg/L	<5.000	05/24/2010
1,2-dichloropropane	<0.5 µg/L	<5.000	05/24/2010
1,1,1-trichloroethane	<0.5 µg/ L	<200.000	05/24/2010
Carbon tetrachloride	<0.5 pg/L	<5:000	05/24/2010
P-dichlorobenzene	<0.5 µg/L	<75.000	05/24/2010
Styrene	<0.5 µg/L	<100.000	05/24/2010





Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S270186 (383017)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point: Sample Location:

Ex. 6 Personal Privacy (PP)

SEAFORD DE

Sample Type:

SP

OT

Chlorination:

Not Chlorinated or

Tested

Date_Collected:_

_05/19/2010__1:59 pn__

Collected By:

SCHEERS/MCCLAII

Collector ID:

601

05/20/2010 12:55 pi

Date Received:

Sampled pH:

Free CI: Total CI:

Specimen Note:

Test	Result	MCL	Date Released
Xylenes	<0.5 µg/L	<=10,000.000	05/24/2010
Ethylbenzene	<0.5 μg/L	<700.000	05/24/2010
Tetrachloroethylene	<0.5 µg/L	<5.000	05/24/2010
Chlorobenzene	<0.5 µg/L	<100.000	05/24/2010
Toluene	<0.5 µg/L	<1,000.000	05/24/2010
1,1,2-trichloroethane	<0.5 µg/L	<5.000	05/24/2010
1,2,4-trichlorobenzene	<0.5 μg/ L	<80.000	05/24/2010
O-dichlorobenzene	<0.5 μg/L	<600.000	05/24/2010



Print Date: 05/25/2010



Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * \$ 2 8 3 7 7 5 * CH69876	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*
Collection Date:4/28/2011	*Confirmation & *Replacement Requires Original Sample #
Collection Time: (military) 11:50	<u>'o</u>
PWSID #_PRIVATE Supply !	Name: Not home
Facility Name: Ex. 6 Personal (For example: Treatment Plant, Sampling Station, or Distrib	Privacy (PP) Facility #_ bution System) Facility #_ (For example: TP001, SS001, DS001, or WL001/DNREC ID#)
Sample Point	Sample Point #
AST/Operator # Collector	
DE-331 McCla	ain382-6704741-8631
Free Chlorine X mg/L	Total ChlorineXmg/L X Not Chlorinated
pH Field Test Monitoring	Schedule: ☐ Mthly. ☐ Qtr. ☐ Ann. ☐ Tri. ☐ Oth,
Analyte Group: Please check bo	x of individual test required.
□ ROUTINE: (mg/L) [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,]	☐ FULL CHEM: (mg/L) ☐ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L) (As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb	☐ Mn ☐ Cu ☐ Anions CN [NO₃, NO₂, F, Cl]
VOCs TTHM HAA5 EPA 524.2 EPA 552.2	Pesticides Herbicides 508 525 EPA 505 EPA 515.1
□ 531 □ 504 □ Gross A	Alpha 🗆 Radium 226/228 🗆 Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water
43 S. DuPont Highway
Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Office of Drinking Water Agency: Label ID (Sample #):

S283775 (469076)

Property Owner/Facility: NOT HOME

PWSID:

PRIVATE

Sample Point:

W.T. Ex. 6 Personal Privacy (PP)

Sample Location:

Notes / Comments:

Sample Type: Chlorination:

Not Chlorinated or

Tested

ZINC ALSO PLEASE

Date Collected:

04/28/2011 11:56 ar

04/29/2011 12:20 pt

Collected By:

MCCLAIN

Collector ID:

331

Date Received:

Sampled pH:

Free CI:

Total CI:

Test	Result	MCL	Date Released
EPA200.8			
Beryllium	<0.0005 mg/L	<=0.004	05/05/2011
Chromium	0.0040 mg/L	<=0.1	05/05/2011
Manganese	0.0376 mg/L	<=0.05	05/05/2011
Nickel	0.0017 mg/L		05/05/2011
Zinc	<0.010 mg/L	<=5	05/05/2011
Arsenic	<0.0005 mg/L	<=0.01	05/05/2011
Selenium	<0.010 mg/L	<=0.05	05/05/2011
Cadmium	<0.0005 mg/L	<=0.005	05/05/2011
Antimony	<0.0005 mg/L	<=0.006	05/05/2011
Barium	0.0832 mg/L	<=2.0000	05/05/2011
Mercury	<0.0005 mg/L	<=0.002	05/05/2011
Thallium	<0.0005 mg/L	<=0.002	05/05/2011
Lead	<0.0005 mg/L	<=0.015	05/05/2011
Uranium	<0.0005 mg/L	<=0.03	05/05/2011



Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * \$ 2 8 3 7 7 3 * 4 4 4 9 0 7 7	TEST Request: □ Routine □ Complaint □ Confirmation* X Special □ MRT □ Field Blank □ Split □ Duplicate □ Replacement*
Collection Date:4/28/2011Collection Time: (military)	*Confirmation & *Replacement Requires Original Sample #
PWSID #_PRIVATE Supply I	E 0.D(DD)
Facility Name: Ex. 6 Personal P (For example: Treatment Plant, Sampling Station, or Distrit	rivacy (PP) Facility #
Sample Point	Sample Point # K.S.
AST/Operator # Collector	(For example: DEP001, MRT001, SP042, or WT001) 's Name Collector's Phone Collector's Fax #
DE-331 McCla	ain 382-6704 741-8631
_	Total ChlorineXmg/L X Not Chlorinated
pH Field Test Monitoring	Schedule: Mthly. Qtr. Ann. Tri. Oth.
Analyte Group: Please check bo	x of individual test required.
□ ROUTINE: (mg/L) [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,]	☐ FULL CHEM: (mg/L) ☐ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L) [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb	☐ Mn ☐ Cu ☐ Anions CN [NO₃, NO₂, F, Cl]
□ VOCs □ TTHM □ HAA5 EPA 524.2 EPA 552.2	☐ Pesticides ☐ Herbicides ☐ 508 ☐ 525 EPA 505 EPA 515.1
□ 531 □ 504 □ Gross A	Alpha 🗆 Radium 226/228 🗇 Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

S283773 (469077) Label ID (Sample #):

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

K.S.

Sample Location:

Ex. 6 Personal Privacy (PP)

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Notes / Comments:

ZINC ALSO PLEASE

Date Collected:

04/28/2011 11:44 ar

Collected By:

MCCLAIN

04/29/2011 12:20 pt

Collector ID:

331

Date Received:

Sampled pH:

Free CI:

Total CI:

Test	Result	MCL	Date Released
EPA200.8		The state of the s	An experience of the second
^r Beryllium	<0.0005 mg/L	<=0.004	05/05/2011
' Chromium	0.0031 mg/L	<=0.1	05/05/2011
· Manganese	0.0136 mg/L	<=0.05	05/05/2011
· Nickel	0.0017 mg/L		05/05/2011
Zinc	<0.010 mg/L	<=5	05/05/2011
Arsenic	<0.0005 mg/L	<=0.01	05/05/2011
Selenium	<0.010 mg/L	<=0.05	05/05/2011
Cadmium	<0.0005 mg/L	<=0.005	05/05/2011
• Antimony	<0.0005 mg/L	<=0.006	05/05/2011
Barium	0.0298 mg/L	<=2.0000	05/05/2011
· Mercury	<0.0005 mg/L	<=0.002	05/05/2011
- Thallium	<0.0005 mg/L	<=0.002	05/05/2011
· Lead	<0.0005 mg/L	<=0.015	05/05/2011
Uranium	<0.0005 mg/L	<=0.03	05/05/2011



Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

* s 2 8 3 7 7 1 * W 449078	□ Routine □ Complaint □ Confirmation* X Special □ MRT □ Field Blank □ Split □ Duplicate □ Replacement*
Collection Date:4/28/2011	
Collection Time: (military) 153	Ex 6 Parcanal Privacy (PP)
Facility Name: Ex. 6 Personal Priva (For example: Treatment Plant, Sampling Station, or Distribution	acy (PP) Facility # Sealor
Sample Point	Sample Point #
AST/Operator # Collector's I	
DE-331McClain	
	tal Chlorine X mg/L X Not Chlorinated
	hedule: Mthly. Qtr. Ann. Tri. Oth. Circle ideal track are already
Analyte Group: Please check box o ROUTINE: (mg/L) [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,]	FULL CHEM: (mg/L) [Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L) [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	Mn
□ VOCs □ TTHM □ HAA5 □ EPA 552.2	Pesticides Herbicides 508 525 EPA 505 EPA 515.1
□ 531 □ 504 □ Gross Alp	ha ☐ Radium 226/228 ☐ Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S283771 (469078)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

O.T.

Sample Location:

Ex. 6 Personal Privacy (PP)

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Notes / Comments: ZINC ALSO PLEASE

Date Collected:

04/28/2011 11:37 aı

04/29/2011 12:20 pt

Collected By:

MCCLAIN

Collector ID:

331

Date Received:

Sampled pH:

Free CI:

Total CI:

Test	Result	MCL	Date Released
EPA200.8			
Beryllium	<0.0005 mg/L	<=0.004	05/05/2011
Chromium	0.0033 mg/L	<=0.1	05/05/2011
Manganese	0.0011 mg/L	<=0.05	05/05/2011
Nickel	<0.0005 mg/L		05/05/2011
Zinc	<0.010 mg/L	<=5	05/05/2011
Arsenic	<0.0005 mg/L	<=0.01	05/05/2011
Selenium	<0.010 mg/L	<=0.05	05/05/2011
Cadmium	<0.0005 mg/L	<=0.005	05/05/2011
Antimony	<0.0005 mg/L	<=0.006	05/05/2011
Barium	<0.010 mg/L	<=2.0000	05/05/2011
Mercury	<0.0005 mg/L	<=0.002	05/05/2011
Thallium	<0.0005 mg/L	<=0.002	05/05/2011
Lead	<0.0005 mg/L	<=0.015	05/05/2011
Uranium	<0.0005 mg/L	<=0.03	05/05/2011



Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

ODW 469079	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*
Collection Date:4/28/2011	*Confirmation & *Replacement Requires Original Sample #
Collection Time: (military)	<u>7</u>
PWSID #_PRIVATE Supply Na	
Facility Name: Ex. 6 Personal Privace (For example: Treatment Plant, Sampling Station, or Distribute)	cy (PP) Facility #
Sample Point	Sample Point # O . (For example: DEP001, MRT001, SP042, or WT001)
AST/Operator # Collector's	
DE-331McClai	n
Free ChlorineXmg/L Telescond T	otal ChlorineXmg/L X Not Chlorinated
pH Field Test Monitoring S	Schedule: Mthly. Qtr. Ann. Tri. Oth.
Analyte Group: Please check box	of individual test required.
☐ ROUTINE: (mg/L) [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,]	☐ FULL CHEM: (mg/L) ☐ Sulfate [Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L) [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, T	☐ Mn ☐ Cu ☐ Anions CN [NO₃, NO₂, F, CI]
VOCs TTHM HAA5 EPA 524.2 EPA 552.2	☐ Pesticides ☐ Herbicides ☐ 508 ☐ 525 EPA 505 EPA 515.1
□ 531 □ 504 □ Gross Al	pha 🗆 Radium 226/228 🗆 Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

S283769 (469079) Label ID (Sample #):

Ex. 6 Personal Privacy (PP) Property Owner/Facility:

PWSID:

PRIVATE O.T.____

Sample Location:

Ex. 6 Personal Privacy (PP)

Sample Type:

SP

Chlorination:

Sample Point:

Not Chlorinated or

Tested

Notes / Comments:

ZINC ALSO PLEASE

Date Collected:

04/28/2011 11:29 ai

Collected By:

MCCLAIN

331 Collector ID:

Date Received:

04/29/2011 12:20 pt

Sampled pH:

Free CI:

Total CI:

Test	Result	MCL	Date Released
EPA200.8	er isselv av er grap byer er etter et han hender varle. Han Warnell bedektig et hood he ett i hendele ett i he		
Beryllium	0.0005 mg/L	<=0.004	05/05/2011
Chromium	0.0035 mg/L	<=0.1	05/05/2011
Manganese	0.1653 mg/L	<=0.05	05/05/2011
Nickel	0.0051 mg/L		05/05/2011
Zinc	0.0464 mg/L	<=5	05/05/2011
Arsenic	<0.0005 mg/L	<=0.01	05/05/2011
Selenium	<0.010 mg/L	<=0.05	05/05/2011
Cadmium	<0.0005 mg/L	<=0.005	05/05/2011
Antimony	<0.0005 mg/L	<=0.006	05/05/2011
Barium	0.2314 mg/L	<=2.0000	05/05/2011
Mercury	<0.0005 mg/L	<=0.002	05/05/2011
Thallium	<0.0005 mg/L	<=0.002	05/05/2011
Lead	0.0021 mg/L	<=0.015	05/05/2011
Uranium	<0.0005 mg/L	<=0.03	05/05/2011

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

	(302) 223-1520
F * \$ 2 8 3 8 1 4 *	TEST Request: □ Routine □ Complaint □ Confirmation* X Special □ MRT □ Field Blank □ Split □ Duplicate □ Replacement*
469057	☐ Split ☐ Duplicate ☐ Replacement*
Collection Date:4/28/2011 Collection Time: (military)(O:14/	*Confirmation & *Replacement Requires Original Sample #
PWSID #_PRIVATE Supply Name:	Ex. 6 Personal Privacy (PP)
Facility Name: Ex. 6 Personal Privacy (Por example: Treatment Plant, Sampling Station, or Distribution Systems	PP) Facility # (For example: TP001, SS001, DS001, or WL001/DNREC ID#)
Sample Point Deaford DF	Sample Point # OT (For example: DEP001, MRT001, SP042, or WT001)
AST/Operator # Collector's Nan	
DE-331 McClain	382-6704741-8631
	ChlorineXmg/L X Not Chlorinated dule: Mthly. Qtr. Ann. Tri. Oth
Analyte Group: Please check box of in-	dividual test required.
□ ROUTINE: (mg/L) □ FU [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,] □ [Ro	JLL CHEM: (mg/L) Outine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L)	n ∃ Cu ☐ Anions CN [NO₃, NO₂, F, CI]
	esticides
☐ 531 ☐ 504 ☐ Gross Alpha	□ Radium 226/228 □ Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway
Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency:

Office of Drinking Water

Label ID (Sample #):

S283814 (469064)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID: Sample Point: PRIVATE

Sample Location:

OT/ Ex. 6 Personal Privacy (PP) Ex. 6 Personal Privacy (PP)

SEAFORD DE

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Notes / Comments:

ZINC ALSO PLEASE

Date Received: Sampled pH:

Date Collected:

Collected By:

Collector ID:

04/28/2011 10:14 ar

04/29/2011 12:20 pt

MCCLAIN

331

Free CI:

Total CI:

Test	Result	MCL	Date Released
EPA200.8			
Beryllium	<0.0005 mg/L	<=0.004	05/09/2011
Chromium	0.0031 mg/L	<=0.1	05/09/2011
Manganese	0.0057 mg/L	<=0.05	05/09/2011
Nickel	0.0006 mg/L		05/09/2011
Zinc	<0.010 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.0642 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0.0038 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

100 100 100 100 100 100 100 100 100 100	(302) 223-1320
F * \$ 2 8 3 8 1 1 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank
00W 469066	☐ Split ☐ Duplicate ☐ Replacement*
Collection Date:4/28/2011	*Confirmation & *Replacement Requires Original Sample #
Collection Time: (military) 11:07	
PWSID #_PRIVATE Supply Name	Ex. 6 Personal Privacy (PP)
Facility Name: Ex. 6 Personal Privacy ((For example: Treatment Plant, Sampling Station, or Distribution Sys	Facility # (For example: TP001, SS001, DS001, or WL001/DNREC ID#)
Sample Point	Sample Point # Sample Point # Sample: DEP001, MRT001, SP042, or WT001)
AST/Operator # Collector's Na	
DE-331McClain	382-6704741-8631
Free ChlorineXmg/L Total	ChlorineXmg/L X Not Chlorinated
pH Field Test Monitoring Sche	dule: Mthly. Qtr. Ann. Tri. Oth
Analyte Group: Please check box of i	ndividual test required.
	ULL CHEM: (mg/L) Sulfate Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L)	In ☐ Cu ☐ Anions CN [NO ₃ , NO ₂ , F, CI]
	esticides
☐ 531 ☐ 504 ☐ Gross Alpha	☐ Radium 226/228 ☐ Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Date Collected:

Collected By:

Collector ID:

Sampled pH:

Free CI:

Total CI:

Date Received:

04/28/2011 11:07 ar

04/29/2011 12:20 pt

MCCLAIN

331

Agency: Office of Drinking Water

Label ID (Sample #): S283811 (469066)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OT

Sample Location:

Ex. 6 Personal Privacy (PP) SEAFORD DE

Sample Type:

....

Chlorination: Not Chlorinated or

Tested

Notes / Comments:

ZINC ALSO PLEASE

Specimen Note:

Test	Result	MCL	Date Released
EPA200.8			
Beryllium	0.0007 mg/L	<=0.004	05/09/2011
Chromium	0.0242 mg/L	<=0.1	05/09/2011
Manganese	0.0930 mg/L	<=0.05	05/09/2011
Nickel	0.0765 mg/L		05/09/2011
Zinc	0.0172 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.0767 mg/L	<=2.0000	05/09/2011
Mercury	0.0010 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0.0019 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011

Print Date: 05/09/2011

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * \$ 2 8 3 8 0	9.2067	TEST Request: Routine Complaint Special MRT Split Duplicate	☐ Field Blank
Collection Date:		*Confirmation & *F Requires Original	~
PWSID #_PRIVAT	E Supply Name:		
Facility Name: E	x. 6 Personal Privacy Sampling Station, or Distribution System	(PP) Facility #	101 JF 001, DS001, or WL001/DNREC ID#)
Sample Point		Sample Point #	DEP001, MRT001, SP042, or WT001)
AST/Operator #	Collector's Name		
DE-331	McClain	382-6704	741-8631
Free Chlorine>	(mg/L Total Ch	nlorineXmg/L	X Not Chlorinated
pH Field Test	Monitoring Schedu	le: 🗆 Mthly. 🗆 Qtr. 🗆 Ann	. 🗆 Tri. 🗆 Oth
Analyte Group: P	lease check box of indi	ividual test required.	
ROUTINE: (mg [NO ₃ , NO ₂ , Fe, Na, pl	ı/L) □ FUL H, F, Cl,] □ [Rou	L CHEM: (mg/L) Itine Chem. plus: Alk, Hardne	☐ Sulfate ess, TDS]
X TRACE: (mg/L (As, Ba, Be, Cd, Cr,)) □ Mn Pb, Hg, Ni, Se, Sb, Tl]	□ Cu □ Anion [NO ₃ , N	IS CN IO ₂ , F, Cl]
VOCs TTH		ticides	□ 508 □ 525
□ 531 □ 504	☐ Gross Alpha	☐ Radium 226/228 🗇 (Other:
Field Blank ID Num	nber:		

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Office of Drinking Water Agency:

Label ID (Sample #): S283809 (469067)

Ex. 6 Personal Privacy (PP) Property Owner/Facility:

PWSID:

PRIVATE

Sample Point:

OT Ex. 6 Personal Privacy (PP)

Sample Location: SEAFORD DE

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Notes / Comments:

ZINC ALSO PLEASE

Date Collected:

04/28/2011 10:56 at

Collected By:

MCCLAIN

Collector ID: **Date Received:**

Sampled pH:

331

04/29/2011 12:20 pi

Free CI: Total CI:

Specimen Note:

Date Released

Test	Result	MCL	Date Released
EPA200.8		_e igg _a ja kydes, suga kyd _a (gart varig kaminum rang arrangan na z _a kuran, unan habit kan timezan arrangan andas	manan is silve y almaqaladig allayig is qayga a triba (i). Ya nama yala ru aya yaga na naka nakanta soonaa kee
Beryllium	<0.0005 mg/L	<=0.004	05/09/2011
Chromium	0.0029 mg/L	<=0.1	05/09/2011
Manganese	0.2179 mg/L	<=0.05	05/09/2011
Nickel	0.0020 mg/L		05/09/2011
Zinc	0.0249 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.1361 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	<0.0005 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011



Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

	(302) 223-1520	
F * \$ 2 8 3 8 0 7 *	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*	
*Confirmation & *Replacement Collection Date:4/28/2011 Requires Original Sample #		
Collection Time: (military)		
PWSID #_PRIVATE Supply Name:	Ex. 6 Personal Privacy (PP)	
Facility Name: Ex. 6 Personal Privacy (PI (For example: Treatment Plant, Sampling Station, or Distribution Systems)	P) Facility # <u>Joa Lond DE</u> (For example: TP001, \$5001, DS001, or WL001/DNREC 1D#)	
Sample Point	Sample Point # (For example: DEP001, MRT001, SP042, or WT001)	
AST/Operator # Collector's Nan		
DE-331 McClain	382-6704741-8631	
Free ChlorineXmg/L Total C	ChlorineXmg/L X Not Chlorinated	
pH Field Test Monitoring Sched	ule: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth	
Analyte Group: Please check box of inc	dividual test required.	
ROUTINE: (mg/L)	LL CHEM: (mg/L) Goutine Chem. plus: Alk, Hardness, TDS]	
X TRACE: (mg/L)	n ☐ Cu ☐ Anions CN [ÑO₃, NO₂, F, CI]	
	sticides	
☐ 531 ☐ 504 ☐ Gross Alpha	☐ Radium 226/228 ☐ Other:	
Field Blank ID Number:		

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): \$283807 (469069)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID: PRIVATE

Sample Point: OT

Sample Location: Ex. 6 Personal Privacy (PP)

Sample Type: SP

Chlorination: Not Chlorinated or

, Tested

Notes / Comments: ZINC ALSO PLEASE

Specimen Note:

Test	Result	MCL	Date Released
EPA200.8			
Beryllium	0,0008 mg/L	<=0.004	05/09/2011
Chromium	0.0014 mg/L	<=0.1	05/09/2011
Manganese	0.2023 mg/L	<=0.05	05/09/2011
Nickel	0.0061 mg/L		05/09/2011
Zinc	0.0233 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.4221 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0,0006 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011

Print Date: 05/09/2011

04/28/2011 10:42 ar

04/29/2011 12:20 pt

MCCLAIN

331

Date Collected:

Date Received:

Collected By:

Collector ID:

Sampled pH:

Free CI:

Total CI:

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

F * \$ 2 B 3 8 0 5 * UC9070	TEST Request: □ Routine □ Complaint □ Confirmation* X Special □ MRT □ Field Blank □ Split □ Duplicate □ Replacement*
Collection Date:4/28/2011	*Confirmation & *Replacement Requires Original Sample #
Collection Time: (military) _ / O : 3 / PWSID #_PRIVATE Supply Nar	
Facility Name: Ex. 6 Personal Privacy (For example: Treatment Plant, Sampling Station, or Distribution	(PP) Facility #
Sample Point Well Tap	Sample Point # UT (For example: DEP001, MRT001, SP042, or WT001)
AST/Operator # Collector's !	
DE-331McClain	382-6704741-8631
Free Chlorine X mg/L Tot	tal ChlorineXmg/L X Not Chlorinated
pH Field Test Monitoring Sc	hedule: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth
Analyte Group: Please check box o	f individual test required.
□ ROUTINE: (mg/L) [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,]	FULL CHEM: (mg/L) [Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L) [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Π]	Mn
VOCs TTHM HAA5 PPA 552.2	Pesticides
☐ 531 ☐ 504 ☐ Gross Alp	ha
Field Blank ID Number:	

Division of Public Health Office of Drinking Water
43 S. DuPont Highway
Dover, DE 19901



Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S283805 (469070)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID: PRIVATE

Sample Point: WT

Sample Location:

Ex. 6 Personal Privacy (PP) SEAFORD DE

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Notes / Comments: ZII

ZINC ALSO PLEASE

Free CI: Total CI:

Date Collected:

Collected By:

Collector ID:

Sampled pH:

Date Received:

04/28/2011 10:31 ai

04/29/2011 12:20 pt

MCCLAIN

331

Specimen Note:

Test	Result	MCL	Date Released
EPA200.8			
Beryllium	0.0038 mg/L	<=0.004	05/09/2011
Chromium	0.0016 mg/L	<=0.1	05/09/2011
Manganese	0.1906 mg/L	<=0.05	05/09/2011
Nickel	0.0112 mg/L		05/09/2011
Zinc	1.4265 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.8478 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0.0010 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011



Print Date: 05/09/2011

CHEMICAL FORM

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

	(302) 223-1520
ODW (1/ GAZ)	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*
469072	Dapricute a Reputation
Collection Date:4/28/2011	*Confirmation & *Replacement Requires Original Sample #
Collection Time: (military) 10:06	
PWSID #_PRIVATE Supply Name:	Ex. 6 Personal Privacy (PP)
Facility Name: Ex. 6 Personal Privacy (PF	racinty #
(For example: Treatment Plant, Sampling Station, or Distribution System	DD)
Sample Point Ex. 6 Personal Privacy ((For example: DEP001, MRT001, SP042, or WT001)
AST/Operator # Collector's Name	
DE-331 McClain	382-6704741-8631
Free ChlorineXmg/L Total Ch	nlorineXmg/L X Not Chlorinated
pH Field Test Monitoring Schedu	ile: 🗆 Mthly. 🗇 Qtr. 🗇 Ann. 🗇 Tri. 🗀 Oth
Analyte Group: Please check box of ind	ividual test required.
☐ ROUTINE: (mg/L) ☐ FUL [NO₃, NO₂, Fe, Na, pH, F, Cl,] [Rot	L CHEM: (mg/L) ☐ Sulfate utine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L) \Box Mn [As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Sb, Tl]	☐ Cu ☐ Anions ☐ CN [NO ₃ , NO ₂ , F, Cl]
OVOCS TTHM HAA5 Pes	ticides Herbicides 3 508 3 525 EPA 515.1
☐ 531 ☐ 504 ☐ Gross Alpha	☐ Radium 226/228 ☐ Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water
43 S. DuPont Highway
Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Delaware Health and Social Services

Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977 Phone: (302) 223-1520 Fax: (302) 653-2877

Office of Drinking Water Agency:

Label ID (Sample #): S283803 (469072)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

 ΩT

Ex. 6 Personal Privacy (PP) Sample Location:

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

Notes / Comments:

ZINC

Collected By: **MCCLAIN**

331

Collector ID:

Date Received:

Date Collected:

04/29/2011 12:20 pi

04/28/2011 10:06 ai

Sampled pH:

Free CI:

Total CI:

Specimen Note:

Test	Result ·	MCL	Date Released
EPA200.8			
Beryllium	0.0005 mg/L	<=0.004	05/09/2011
Chromium	0.0013 mg/L	<=0.1	05/09/2011
Manganese	0.0977 mg/L	<=0.05	05/09/2011
Nickel	0.0046 mg/L		05/09/2011
Zinc	0.0422 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.5250 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0.0006 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011



Print Date: 05/09/2011

CHEMICAL FORM

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

	(302) 223-1320
S ODW * \$ 2 8 3 8 0 1 * Note: 469074	TEST Request: Routine Complaint Confirmation* X Special MRT Field Blank Split Duplicate Replacement*
Collection Date:4/28/2011 Collection Time: (military)0955	*Confirmation & *Replacement Requires Original Sample #
PWSID #_PRIVATE Supply Name:	Ex. 6 Personal Privacy (PP)
Facility Name: (For example: Treatment Plant, Sampling Station, or Distribution System)	Facility #
Sample Point Ex. 6 Personal Privacy (PP)	
AST/Operator # Collector's Name	
DE-331McClain	382-6704741-8631
Free Chlorine X mg/L Total Ch	nlorineXmg/L X Not Chlorinated
pH Field Test Monitoring Schedu	le: ☐ Mthly. ☐ Qtr. ☐ Ann. ☐ Tri. ☐ Oth
Analyte Group: Please check box of indi	vidual test required.
	L CHEM: (mg/L) Sulfate Itine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L)	☐ Cu ☐ Anions CN [NO ₃ , NO ₂ , F, Cl]
VOCs TTHM HAA5 Pest	ticides
☐ 531 ☐ 504 ☐ Gross Alpha	Radium 226/228
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Delaware Health and Social Services

Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Agency: Office of Drinking Water

Label ID (Sample #): S283801 (469074)

Property Owner/Facility: Ex. 6 Personal Privacy (PP)

PWSID: **PRIVATE**

Sample Point: Ex. 6 Personal Privacy (PP)

Sample Location:

Sample Type:

Chlorination: Not Chlorinated or

Notes / Comments:

SP

Tested

ZINC ALSO PLEASE

Date Collected:

04/28/2011 9:55 an

04/29/2011 12:20 pt

Collected By:

MCCLAIN

Collector ID:

331

Date Received:

Sampled pH:

Free CI:

Total CI:

Specimen Note:

ويور الرواز ورواز ورواز والمرافق والمرا	en han hatt i det krisja i ser sek til krisja krisj		man production and a second of the production of the second of the secon
Test	Result	MCL	Date Released
EPA200.8			
Beryllium	0.0017 mg/L	<=0.004	05/09/2011
Chromium	0.0023 mg/L	<=0.1	05/09/2011
Manganese	0.0823 mg/L	<=0.05	05/09/2011
Nickel	0.0071 mg/L		05/09/2011
Zinc	0.3646 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.2745 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0.0018 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011



CHEMICAL FORM

Delaware Public Health Laboratory 30 Sunnyside Road Smyrna, DE 19977 (302) 223-1520

opw 46905	TEST Request: Routine Complaint Confirmation* Special MRT Field Blank Split Duplicate Replacement*
Collection Date:4/28/2011	*Confirmation & *Replacement Requires Original Sample #
Collection Time: (military) / 0 ! 2 (
PWSID #_PRIVATE Supply Name	Ex. 6 Personal Privacy (PP)
Facility Name: Ex. 6 Personal Priva (For example: Treatment Plant, Sampling Station, or Distribution Sy	cy (PP) Facility # Loadord (For example: TP001, SS004, DS001, or WL001/DNREC ID#)
Sample Point	potentian and a second
AST/Operator # Collector's Na	(For example: DEP001, MRT001, SP042, or W1001) The Collector's Phone Collector's Fax #
DE-331McClain	382-6704741-8631
Free Chlorine X mg/L Total	ChlorineXmg/L X Not Chlorinated
pH Field Test Monitoring Sche	edule: 🗆 Mthly. 🗆 Qtr. 🗆 Ann. 🗆 Tri. 🗆 Oth
Analyte Group: Please check box of	individual test required.
ROUTINE: (mg/L) F [NO ₃ , NO ₂ , Fe, Na, pH, F, Cl,] [FULL CHEM: (mg/L) Routine Chem. plus: Alk, Hardness, TDS]
X TRACE: (mg/L)	In ☐ Cu ☐ Anions CN [NO₃, NO₂, F, CI]
	Pesticides Herbicides 508 525 EPA 505 EPA 515.1
☐ 531 ☐ 504 ☐ Gross Alpha	a □ Radium 226/228 □ Other:
Field Blank ID Number:	

Division of Public Health Office of Drinking Water 43 S. DuPont Highway Dover, DE 19901

Ph: (302) 741-8630, FAX: (302) 741-8631 or (302) 661-7228



Delaware Health and Social Services

Division of Public Health Laboratory

30 Sunnyside Road Smyrna, Delaware 19977

Phone: (302) 223-1520 Fax: (302) 653-2877

Date Collected:

Date Received:

Collected By:

Collector ID:

Sampled pH:

Free CI:

Total CI:

04/28/2011 10:21 at

04/29/2011 12:20 pi

MCCLAIN

331

Agency: Office of Drinking Water

Label ID (Sample #): S283799 (469075)

Property Owner/Facility Ex. 6 Personal Privacy (PP)

PWSID:

PRIVATE

Sample Point:

OT

Sample Location: Ex. 6 Personal Privacy (PP)

Sample Type:

SP

Chlorination:

Not Chlorinated or

Tested

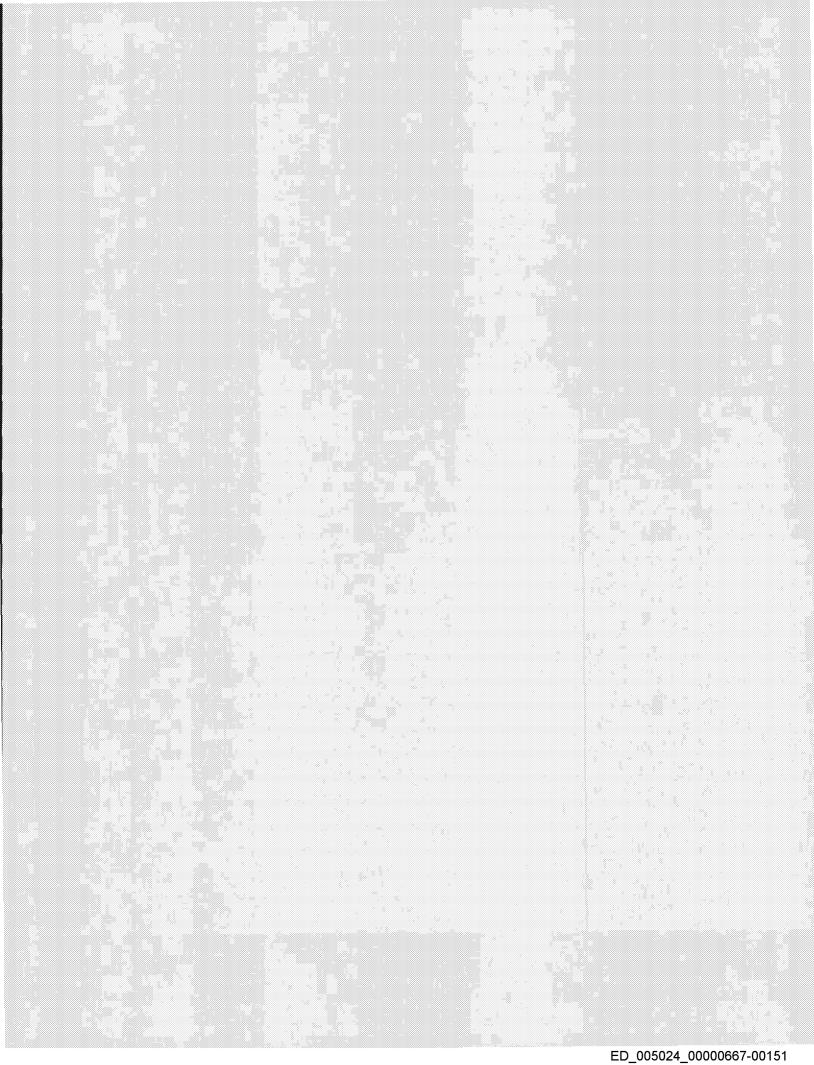
Notes / Comments:

ZINC ALSO PLEASE

Specimen Note:

Test	Result	MCL	Date Released
EPA200.8		•	
Beryllium	<0.0005 mg/L	<=0,004	05/09/2011
Chromium	0.0012 mg/L	<=0.1	05/09/2011
Manganese	0.0408 mg/L	<=0.05	05/09/2011
Nickel	0.0025 mg/L		05/09/2011
Zinc	0.0303 mg/L	<=5	05/09/2011
Arsenic	<0.0005 mg/L	<=0.01	05/09/2011
Selenium	<0.010 mg/L	<=0.05	05/09/2011
Cadmium	<0.0005 mg/L	<=0.005	05/09/2011
Antimony	<0.0005 mg/L	<=0.006	05/09/2011
Barium	0.2289 mg/L	<=2.0000	05/09/2011
Mercury	<0.0005 mg/L	<=0.002	05/09/2011
Thallium	<0.0005 mg/L	<=0.002	05/09/2011
Lead	0.0029 mg/L	<=0.015	05/09/2011
Uranium	<0.0005 mg/L	<=0.03	05/09/2011







630 Churchmans Road Newark, Delaware 19702 302-266-9121 • 454-8720 (FAX) WWW.ATLANTICCOASTLABS.COM

REPORT OF ANALYSIS

Delaware Division of Public Health

43 S. Dupont Highway

Dover, DE 19901

Order Number

A11041628

Project Name:

ODW

Receive Date:

4/29/2011

Client Code:

DEL_HEALTH

Attention: Ms. Anita Beckel

The reported results relate only to the samples as received by the laboratory. This report shall not be reproduced except in full without the written permission of the laboratory or client.

The following abbreviations may appear in this report: RL refers to Reporting Limit

N/A refers to Not Applicable

Any organic compound containing (Surr) at the beginning of the compound name is a surrogate compound added to all samples to monitor the analytical process and is reported in % Recovery.

The following data qualifiers may be used in this report. The data qualifier(s) will appear in the qualifier column of this report.

Data Qualifiers:

- B Analyte detected in laboratory blank. Result may be biased high.
- Y Laboratory Control Sample outside the acceptance criteria.
- X Analyte hold time was exceeded.
- J Analyte present. Reported value may not be accurate or precise.
- S Surrogate outside acceptance criteria.
- E Analyte concentration exceeded the upper limit of calibration curve.

The following tests have a maximum hold time of 15 minutes. If the test is not performed in the field then the result may not be suitable for regulatory purposes. (pH, sulfite, chlorine free, and chlorine total)

Laboratory Accreditations:

State of Delaware - DE00011

State of Pennsylvania - 68-335

State of Maryland - #138

State of New Jersey - DE568

Report comments applicable to this order number appear below:

Approved:

Ex. 4 CBI

tesident

Reported:

5/13/2011 3:11:41 PM

Page 1 of 5



630 Churchmans Koad Newark, Delaware 19702 302-266-9121 * 454-8720 (FAX) WWW.ATLANTICCOASTLABS.COM

Delaware Division of Public Health

Order Number: A11041628

						<u></u>
Sample # A110416	28-01	1866600604886000000000000000000000000000	200000000000000000000000000000000000000	000000000000000000000000000000000000000	500000000000000000000000000000000000000	Sample Date: 4/28/2011 10:13
Site: Client Sample ID: Sample Comments:	S283813 None			econoritana anno 1999		Matrix: Drinking Water
Test Cyanide, Distillation Cyanide, Total		Result 5/2/11 < 0.01	Qualifier	<u>RL</u> N/A 0.01	Units Date Completed mg/L	Method Analysis Date Analyst EPA 335.4 EPA 335.4 S/4/2011 10:19:00 AM Ex. 4 CBI
Sample # A1104162	28-02	200000000000000000000000000000000000000	000000000000000000000000000000000000000			Sample Date: 4/28/2011 10:21
Site: Client Sample ID: Sample Comments:	S283812 None					Matrix: Drinking Water
<u>Test</u> Cyanide, Distillation Cyanide, Total		Result 5/2/11 < 0.01	Qualifier	<u>RL</u> N/A 0.01	Units Date Completed mg/L	Method Analysis Date Analyst EPA 335.4 EPA 335.4 5/4/2011 10:19:00 AM EX. 4 CBI
Sample # A1104162	28-03		000000000000000000000000000000000000000		***************************************	Sample Date: 4/28/2011 11:06
Site: Client Sample ID: Sample Comments:	S283810 None					Matrix: Drinking Water
Test Cyanide, Distillation Cyanide, Total		Result 5/2/11 0.02	Qualifier	<u>RL</u> N/A 0.01	Units Date Completed mg/L	Method Analysis Date Analyst EPA 335.4 EPA 335.4 5/4/2011 10:19:00 AM Ex. 4 CBI
Sample # A1104162	28-04		222222222222222222222222222222222222222			Sample Date: 4/28/2011 10:55
Site: Client Sample ID: Sample Comments:	S283808 None					Matrix: Drinking Water
Test Cyanide, Distillation Cyanide, Total		Result 5/2/11 < 0.01	Qualifier	RL N/A 0.01	Units Date Completed mg/L	Method Analysis Date Analyst EPA 335.4 EPA 335.4 S/4/2011 10:19:00 AM Ex. 4 CBI
Sample # A1104162	28-05	900000000000000000000000000000000000000	***************************************			Sample Date: 4/28/2011 10:41
Site: Client Sample ID: Sample Comments:	S283806 None					Matrix: Drinking Water
<u>Test</u> Cyanide, Distillation Cyanide, Total		Result 5/4/11 < 0.01	Qualifier	RL N/A 0.01	Units Date Completed mg/L	Method Analysis Date Analyst EPA 335.4 EPA 335.4 \$/4/2011 10:19:00 AM Ex. 4 CBI

Reported: 5/13/2011 3:11:41 PM

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President

Approved:

Ex. 4 CBI



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Delaware Division of Public Health

Order Number: A11041628

Sample # A11041628-06 Sample Date: 4/28/2011 10:30

Matrix: Drinking Water Site:

Client Sample ID: S283804 Sample Comments: None

Test Result Qualifier RL Units Method **Analysis Date** Analyst

Cyanide, Distillation 5/4/11 N/A Date Completed EPA 335.4 5/4/2011 10:19:00 AM Ex. 4 CBI Cyanide, Total 0.01 EPA 335.4 < 0.01 mg/L

Sample # A11041628-07 Sample Date: 4/28/2011 10:05

Site: Matrix: Drinking Water

Client Sample ID: S283802

Sample Comments: None

Qualifier Units Method Analysis Date Analyst Result RL Cyanide, Distillation 5/4/11 N/A EPA 335.4 **Date Completed**

Cyanide, Total < 0.01 0.01 EPA 335.4 5/4/2011 10:19:00 AM Ex. 4 CBI mg/L

Sample # A11041628-08 Sample Date: 4/28/2011 9:54

Site: Matrix: Drinking Water

Client Sample ID: S283800 Sample Comments: None

Test Result Qualifier RL Units Method Analysis Date Analyst Cyanide, Distillation 5/4/11 N/A Date Completed EPA 335.4

5/4/2011 10:19:00 AM Ex. 4 CBI Cyanide, Total < 0.01 0.01 mg/L EPA 335.4

Sample Date: 4/28/2011 Sample # A11041628-09 11:57

Site: Matrix: Drinking Water

Client Sample ID: S283774

Sample Comments: None Test Result Qualifier RL Units Method Analysis Date Analyst

Cyanide, Distillation 5/4/11 N/A Date Completed EPA 335.4 5/4/2011 10:19:00 AM Ex. 4 CBI Cyanide, Total < 0.01 0.01 EPA 335.4 mg/L

Sample Date: 4/28/2011 Sample # A11041628-10 11:43

Site:

Matrix: Drinking Water Client Sample ID: S283772

President

Sample Comments: Analyst Test Qualifier RI. Method Analysis Date Result Units

Cyanide, Distillation 5/4/11 N/A EPA 335.4 Date Completed

Cyanide, Total < 0.01 0.01 mg/L EPA 335.4 5/4/2011 10:19:00 AM Ex. 4 CBI

Ex. 4 CBI Reported: 5/13/2011 3:11:41 PM Approved:

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Delaware Division of Public Health

Order Number: A11041628

Sample # A11041628-11

Sample Date: 4/28/2011

Site:

Matrix: Drinking Water

Client Sample ID:

S283770

Sample Comments:

None

Test

Qualifier Result

RL Units Method

Analysis Date

Analyst

Cyanide, Distillation Cyanide, Total

5/6/11 < 0.01 N/A Date Completed 0.01 mg/L

EPA 335.4 EPA 335.4

5/11/2011 3:11:00 PM

Ex. 4 CBI

11:28

11:36

Sample # A11041628-12

Sample Date: 4/28/2011 Matrix: Drinking Water

Site:

Client Sample ID: S283768

Sample Comments: None

Test Cyanide, Distillation

Cyanide, Total

Qualifier Result 5/6/11

< 0.01

RL N/A

Units Date Completed 0.01 mg/L

Method EPA 335.4 EPA 335,4 Analysis Date

5/11/2011 3:11:00 PM

Analyst

Ex. 4 CBI

Ex. 4 CBI Approved: President

Reported:

5/13/2011 3:11:41 PM

Page 4 of 5

CHAIN OF CUSTODY RECORD CHAIN OF CUSTODY RECORD STATE OF DELAWARE 655 8ay Road, Suite 203 Dover, 36 19901 302-741-8630 741-8631 (FAX)	Observation Nach (Na.) Nach (Na.) Ander (S.) 2nd. HCL. Water Supply Name: National Clear Vial Plastic Ander (S.) Anther (S.) <th>Ex. 4 CBI</th> <th>Order ID: A11041628</th> <th>162 2 2 11 18me. 15me. 11,20 11 11.20 11 11.20 11 12.20 1</th>	Ex. 4 CBI	Order ID: A11041628	162 2 2 11 18me. 15me. 11,20 11 11.20 11 11.20 11 12.20 1
SAFE DRINKING WATER A CHAIN OF CUSTODY RE STATE OF DELAWARE	WH, O Na, S, O.		Order ID	Date: 1/2 /
ast ns Foad see 19702 coastlabs.com 454-8720 (FAX)	Preservative Container Type (Volume Number of Containers Analysis Requested Date Time	10 10 10 10 10 10 10 10 10 10 10 10 10 1		Selvanuchert Bar.
Atlantic Coast Laboratories Inc. 630 Churchmans Fload Newark, Delaware 19702 ACLi@elamicroastlabs.com 302-266-9121 454-8720 (FA	Baicote	2.4.5.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6		78

Page 5 of 5

CLIENT REQUEST/COMPLAINT
Originator: Ex. 4 CBI
Date Initiated:
Submitted To: Quality Assurance Manager Operations Manager Technical Director (Circle one)
Date Submitted: Del Health. — DNREC. Nature of Request/Problem (Provide a Brief Description): Nature of Request/Problem (Provide a Brief Description):
Del Health DNREC. John, cargilla Nature of Request/Problem (Provide a Brief Description): A 1/04/1628-3 hit cyande 0.02 5/4/1019
Pls CK # - limit is 0.01
if ok- needs copies of data/GC
Actions Taken: QC chack Skay Deda provoded

Completed by: Ex. 4 CBI Date: 6/14/1/

Attach additional pages as necessary using Correction Action Continuation Sheet

	Total or Free Cyanide (Circle One)	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free	Total Free						
0.206	T QC Status (}								PASS	美	PASS	PASS		PASS										PASS
LFB Conc. ICV Conc.	LFB and CCV %									%66	P. S.	110%			106%										100%
3	Sample RPD / % Recovery																%0.0	84%							
Date:	<u>Si</u> Comments																								
	MDL									0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.25	0.25
	Units	s-An	s-vn	S-V1	S-VN	S-AN	S-AN	s-vn	S-VN	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
by: Amy	Result	6170368.000	2790144.000	1474086.000	747238.000	324109.000	188058.000	110541.000	0.000	0.050	ΩN	0.220	<u>Q</u>	O.N.	0,219	ΩN	ON	0.173	9	9	Q.	ON	N _O	ÛN	0.206
Analyst: Reviewed by:	Weight	τ-	-	τ-	τ-	-	-	£		~	τ	-	v	7	τ-	—	-	ę	-	-	-	-		τ	-
	Manual Dilution	~	-	4 -	€	~	₹-	-	~	τ	-	-	1	₩.	-	₩.	-	*	7	4	-	-	4	50	50
10:19 OT	Sample Type	CalStd	CalStd	AbsChkSt	Blank	AbsChkSt	Blank	Blank	RelChkStd	Dup1	Dup2	Spiked	Unknown	Unknown	Unknown	Unknown	Unknown	Blank	RelChkStd						
04-May-11 C050411.FDT	Cup	-	7	ო	4	2	ပ	7	ω	4	ω	တ	æ		2	ო	4	က	9	7	8	6	10	7-	12
Date/Time of Anlaysis 04-May-11 File:Name: C050411,F	Sample Identification	cal std 0.50 mg/L	cal std 0.20 mg/l	cal std 0.10 mg/L	cal std 0.05 mg/l	cal std 0.02 mg/l	cal std 0.01 mg/l	cal std 0.005 mg/l	cal std 0.000 mg/l	ccv2	ccb	icv	icb	blk 4/29/11	qjj	a11041572-02	a11041572-02	a11041572-02	a11041370-04	a11041373-04	a11041415-03	a11041482-02	a11041577-04	blk 5/2/11	lfb

Date/Time of Anlaysis 04-May-11 File Name; C050411.F	04-May-11 C050411.FDT	10:19 DT		Analyst: Reviewed by:	Amy :			Date:			LFB Conc. ICV Conc.	0.206	
4 9 8 8	: :		100 100 100 100 100 100 100 100 100 100						£ 2 3	à	LFB and		Total or Free
Identification	Number	Type	Manual	Weight	Result	Units	MDL	Comments	Sample KPU / % Recovery	,	CCV % Recovery	QC Status	Cyanide (Circle One)
a11041341-01 solid	13	Dup1	20	τ	0.257	mg/L	0.25		-(Tolal Free
a11041341-01 solid	14	Dup2	50	-	0.320	mg/L	0.25		-21.7%)				Total Free
a11041341-01 solid	15	Spiked	50	-	9.622	mg/L	0.25			, %06			Total Free
1104020-01a solid	16	Unknown	50	τ-	8	mg/L	0.25						Total Free
blk 5/2/11	11	Blank		ŧ	9	mg/L	0.005						Total Free
lfb	18	RelChkStd	-	-	0.200	mg/L	0.005				%26	PASS	Total Free
a11041579-05	19	Dup1	-	τ	ND Q	mg/L	0.005						Total Free
a11041579-05	20	Dup2	- -	γ-	9	mg/L	0.005		%0:0				Total Free
a11041579-05	21	Spiked	۲	- -	0.209	mg/L	0.006			101%			Total Free
a11041617-03	22	Unknown	۲	·	Š	mg/L	0.005						Total Free
CCV-Cyanide	2	AbsChkSt	τ-	-	0.202	mg/L	0.005				101%	PASS	Total Free
CCB-Cyanide	80	Blank	1	τ	9	mg/L	900.0					PASS	Total Free
a11041628-01	23	Unknown	٦	-	9	mg/L	0.005	,					Total Free
a11041628-02	24	Unknown	*-	γ	ND	mg/L	0.005						Total Free
a11041628-03	25	Unknown		1 -	0.017	mg/L	0.005	,					Total Free
a11041628-04	26	Unknown	τ	·	N O	mg/L	0.005	,		*************			Total Free
bik 5/4/11	27	Blank	τ	-	O	mg/L	0.005						Total Free
qj.	28	ReiChkStd	·	•	0.215	mg/L	0.005				104%	PASS	Total Free
a11041628-05	29	Dup1	γ-	τ	N O	mg/L	0.005						Total Free
a11041628-05	30	Dup2	۴	τ	9	mg/L	0.005		%0.0				Total Free
a11041628-05	3,1	Spiked	-		0.203	mg/L	0.005			%66			Total Free
a11041628-06	32	Unknown	1	-	ND	mg/L	0.005						Total Free
a11041628-07	33	Unknown	τ-	-	Q	mg/L	0.005						Total Free
a11041628-08	34	Unknown	ļ	- France	S	mg/L	0.005						Total Free

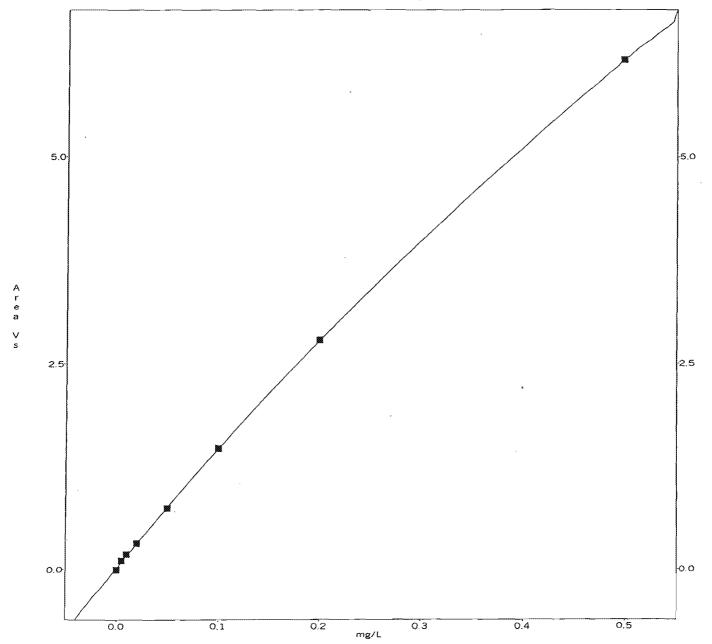
Date/Time of Anlaysis 04-May-11 10:19	04-May-11	10:19		Analyst:	Amy					LFB Conc.		
File Name:	C050411.FDT	TO:		Reviewed by:	oy:			Date:		ICV Conc.	0.200	
Sample	Cup	Sample	Manual						Sample RPD / %	LFB and /% CCV %		Total or Free Cyanide
Identification	Number	Type		Vilution Weight	Result	Units	M M	Comments	Recovery		OC Status	(Circle One)
a11041628-09	35	Unknown	-	*	QN	mg/L	0.005			-		Total Free
a11041628-10	36	Unknown	-	-	8	mg/L	0.005	·				Total Free
CCV-Cyanide	2	AbsChkSt		-	0.201	mg/L	0.005			100%	PASS	Total Free
CCB-Cyanide	8	Blank	*	- -	Q.	mg/L	0.005				PASS	Total Free

Cva	nide,	Total
C y a	11200	TO Car

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 2nd Poly
1	6170368	0.500	6170368					0.0	0.0	0.0
2	2790144	0.200	2790144					0.0	0.0	-0.1
3	1474086	0.100	1474086					0.0	0.0	-0.1
4	747238	0.050	747238					0.0	0.0	2.6
5	324109	0.020	324109					0.0	0.0	-0.4
6	188058	0.010	188058					0.0	0.0	~10.9
7	110541	0.005	110541					0.0	0.0	-20.1
8	0	0.000	0					0.0	0.0	

2nd Order Poly Cono = 2.665e-015 Area $^2 + 6.477e-008$ Area $^2 - 1.189e-003$ x = -1.0000

Scaling: None - Weighting: None



Printed: Wednesday, May 04, 2011 - 10:59 AM

Creator: Ex. 4 CBI

Creation Date: May 4, 2011 8:04:47
Last Modified: May 4, 2011 9:28:26
Description: Cyanide-Distilled

Cup #	Sample ID	Manual Dilution	Sample Type	
1	cal std 0.50 mg/L	1.0000	CalStd	
2	cal std 0.20 mg/l	1.0000	CalStd	
3	cal std 0.10 mg/L	1.0000	CalStd	
4	cal std 0.05 mg/l	1.0000	CalStd	
5	cal std 0.02 mg/l	1.0000	CalStd	
6	cal std 0.01 mg/l	1.0000	CalStd	
7	cal std 0.005 mg/l	1.0000	CalStd	
8	cal std 0.000 mg/l	1.0000	CalStd	
1	blk 4/29/11	1.0000	Blank	
2	lfb	1.0000	RelChkStd	
3	a11041572.02	1.0000	Dup1	
4	a11041572-02	1.0000	Dup2	
5	a11041572-02	1.0000	Spiked	
6	a11041370-04	1.0000	Unknown	
7	a11041373.04	1.0000	Unknown	
8	a11041415-03	1.0000	Unknown	
9	a11041482-02	1.0000	Unknown	-
10	a11041577-04	1.0000	Unknown	3000
11	blk 5/2/11	50.0000	Blank	•
12	lfb	50.0000	RelChkStd	
13	a11041341-01 solid	50.0000	Dup1	
14	a11041341-01 solid	50.0000	Dup2	
15	a11041341-01 solid	50.0000	Spiked	
16	1104020-01a solid	50.0000	Unknown	
17	blk 5/2/11	1.0000	Blank	
18	Ifb .	1.0000	RelChkStd	
19	a11041579-05	1.0000	Dup1	
20	a11041579-05	1.0000	Dup2	
21	a11041579-05	1.0000	Spiked	
22	a11041617-03	1.0000	Unknown	
23	a11041628·01	1.0000	Unknown	
24	a11041628-02	1.0000	Unknown	
25	a11041628-03	1.0000	Unknown	
26	a11041628-04	1.0000	Unknown	
27	blk 5/4/11	1.0000	Blank	
28	lfb	1.0000	RelChkStd	
29	a11041628-05	1.0000	Dup1	
30	a11041628-05	1.0000	Dup2	
31	a11041628-05	1.0000	Spiked	·
32	a11041628-06	1.0000	Unknown	

Cup #	Sample ID	Manual Dilution	Sample Type	
33	a11041628-07	1.0000	Unknown	
34	a11041628·08	1.0000	Unknown	
35	a11041628-09	1.0000	Unknown	
36	a11041628-10	1.0000	Unknown	

CYANIDE DISTILLATION LOGBOOK

Analyst: Alla)

		1		•		•				•	Analysis
	k <u>Sample</u> Type	Sample Number	Date/Time c	f Digostion		hlorine				Volume/Wt	(Total or
Pos.	•					~				<u>Digested</u>	Free)
1-1	Blk			<u> 13:00</u> 1		1	Y	T	12	<u> 50 </u>	(J) F
1-2	LFB	0			- Y	- 1	Y	- 1	<u>la</u>		F
1-3		A11041579-05				1	Υ	- (4-		T F
1-4	S1 dup				. Y	p	Υ	N		- '	† F
1-5	S1 spk	V			. Y	N	Υ	ħ	*		T F
1-6	S2	A11041617-03	,		Υ	h	Υ	N			T F
1-7	.S3	B11041688-01			Y	Ν	Υ	ψ	<u> </u>		F
1-8	S4	A11041628-02			Υ	N	Υ	ψ	1		T F
1-9	S5	A11041628-03		nonnoni ^{ne a} Alektrian Konto, "consonne	Υ	N	Υ	ih	<u>9.</u>		F F
1-10	S6	A11041628-04	<u>\</u>		Υ	W	Υ	W	9.	<u> </u>	F
-2-1	S7			***************************************	Υ	Ν	Υ	Ν	***************************************	,	T F
2-2	S8		***************************************	*	Υ	Ν	Υ	Ν	hit		T F
2-3	S 9	٨			Υ	N	Υ	Ν		anna Periodo de Antonio de Constante de Cons	T F
2-4	S10				Υ	Ν	Υ	Ν			T F
2-5	Blk				Υ	Ν	Υ	Ν			T F
2-6	LFB				Υ	N	Υ	Ν			TF
2-7	S11				Υ	N	Υ	Ν			T F
2-8	S11 dup				Υ	Ν.	Υ	Ν			T F
					Ϋ́	Ν	Υ	Ν			T F
2-10	S12				Υ	Ν	Υ	N		*	TF
3-1	S13				Υ	N	Υ	N			TF
3-2	S14				Ϋ́	Ν	Υ	N			TF
3-3	S15			,	Y	N	Υ	N			TF
3-4	S16				Y	N	Υ				T F
3-5	S17						Υ	N			T F
3-6	S18		,		Y		Υ	N			TF
3-7	S19			`	Y	N	Υ	N			T F
3-8	S20				1		Υ	-			TF
		Market State						_			

'omments:

CYANIDE REAGENT PREPARATION LOG

Sodium Hydroxide, 0.25N	UNITED NEW AND
pate Prepared: 4/26/11 Analyst: ALW	
Supplier and Lot Number: EMD B0510904 036	
Solution ID: CN NaOH- 042611-1	,
20 gm NaOH per 2000 mL Final Volume	Expiration Date: 4/26/12
, Magnesium Chloride Reagent	
Date Prepared: 1/31/11 Analyst: ALW	
Supplier and Lot Number: Ex. 4 CBI - #14472	
Solution ID: CN MgCl- 6/3/11/- (MMDDYY_X)	
510 gm MgCl2 6H2O per 1000 mL Final Vol.	Expiration Date: 1/31/12
, , Sulfuric Acid, 1:1	
Date Prepared: 4/18/11 Analyst: ALW	
Supplier and Lot Number: EMD 49296	
Solution ID: CN Acid- 041811-1	
(MMIDDYY_X) 500 mL conc. H2SO4 per 1000 mL Final Vol.	Expiration Date: 4/18/12
. Chloramine-T Solution	
Pate Prepared: 5/4/11 Analyst: ALW	
upplier and Lot Number: Ex. 4 CBI H 44616	
olution ID: CN ChlorT- 050411-1 (MMDDYY_X)	
1.5 gm Chloramine-T per 250 mL Final Vol.	Expiration Date: 5/5/11
Pyridine-bartituric acid Reagent	
ale Prepared: 4-86-11 Analyst: Alw	
Plution ID: CN PyrBar- 042611-1	
gm Barbituric Acid Supplier and Lot Number: Ex. 4 CBI	Ja259a
75 mL Pyridine Supplier and Lot Number:	H-88303
15 mL conc. HCL Supplier and Lot Number: EM)	50319
725 Eiuzi Volume of DI	Expiration Date: 5/26///
Phosphate Buffer	
le Prepared: 4-26-11 Analyst: Also	
Pplier and Lot Number: Ex. 4 CBI <u>るいいうる / ガベ</u>	7152
ution ID: CN Phos- OH 36 11 -1	•
, a	Expiration Date: 5-26-11
· · · · · · · · · · · · · · · · · · ·	

CYANIDE CALIBRATION STANDARD SOLUTIONS PREPARATION LOG

Control of the Contro	***************************************	0000 <u>000000000000000000000000000000000</u>	00000000000000000000000000000000000000	rannessoppoddottametrosannos	
7000 mg/L Stock Solution:					
Date Prepared:	5-3-11		An	alyst: _	AUN
Stock Cn Calibration Soln ID:	CN Cal Stock	<u>050311-1</u> (MMDDYY-X)	·		
KCN Supplier and Lot Number:			ARREST AR		
KOH Supplier and Lot Number: E	x. 4 CBI 🅜 🗷	8K5A	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		
0.4503 gm KCN and	<u>∂⊘</u> gm KOH /	100 mL	Expiration Date:	5-17-	11
	00000000ANN00000000ANN0000000000000000	g00000000ggbcooooooooq00000000000nnms0000000	annonnessononnos o manus (o policio processo (18
Intermediate Stock Cyanide solutio		•	_		•
pate Prepared:	<u> </u>		Ana	alyst: _	ALW
D of Stock Cn Calibration Soln Used:	<u> </u>	(
intermediate Cn Calibration Soln ID: (CN Cal Inter- a5	0311-1			
<u> </u>	400 mal	(MMDDYY-X)	Expiration Date:	.5	10. 11
mil or 1000 mg/L CN	alluted to 100 mL	U.ZSIV	Expiration Date: _	<u> </u>	70 - 11
Intermediate Cyanide Calibration So	olution, 1.0 mg/L:	##G00014 <u>594959</u> 469064**********************************	2kmmmmmmmoqoqqqqqq46000004qqqq944Q000Qqqq660000000qq	DDD-mmmmg0-mmmmgagt000	Managagaganinian nangkanin nanggaganan nanan nanan nanan nanan sa
Date Prepared:	<u> 5-3-11</u>		Ana	alyst:	ALLI
Jaco : roparod:		,	, , , ,		77000
ID of Intermediate Cn Calibration Soln		····		**************************************	arrana anggitta
Inter. Cn Cal. Soln 1.0 mg/L ID: CN C	al Inter 1.0 				
2.0 mL of 10 mg/L CN dil	uted to 100 ml 0 :	(MMDDYY-X) 25N	Expiration Date:	5-10	\-11
77 77 77 77 77 77 77 77 77 77 77 77 77		**************************************	213 / F 17 (000000000000000000000000000000000000000
Preparation of Calibration Standard	0000000qqqqn0qq000q000q000q000qqq000++++++++	egaanaradaaaannaaaaaaaaaaaaaaaaaaaaaaaaaa		000000000000000000000000000000000000000	oogoogoogoOOOOOOka _{kuus} oooooooooooonnhhhhrooooummaaaacaaaffiisabbga
Data Duan and t	,	•	A 10 00	h make	A1)
Date Prepared:	5-3-1		Ana	lyst: _	HW.
ID of Intermediate Cn Calibration Soln	usea: <u>გე</u>	2311-1	***************************************		
	mL of 1.0 mg/L	Final Volume.			
Standard Soln ID	Standard	mL	Conc., mg/L		
Cn Cal Std 1- <u>050311-1</u>	25.0	50.0	0.50		
Cn Cal Std 2-	10.0	50.0	0.20		
Cn Cal Std 3-	5.0	50.0	0.10		
Cn Cal Std 4-	2.5	50.0	0.05		
Cn Cal Std 5-	1.0	50.0	0.02		
Cn Cal Std 6-	0.50	50.0	0.01		
Cn Cal Std 7-	0.25	50.0	0.005		900000
Cn Cal Std 8(MMDDYY-X)	0.00	50.0	0.000 Expiration Date:	5-10-	- I
HVHVIDDT (-A)			EVINI GROUP POICE	~ J \ _ /	

Standards are prepared in 0.25N NaOH

Note: MMDDYY-X is the identified added to each solution to provide a unique ID for each solution. MM is month, DD is day, YY is year and X is sequential number identifying a particular solution in the event more than one solution is prepared during the day.

ACLI Form 2122.1

Effective Date: February 22, 2008

CHECKLIST FOR CYANIDE BY FIA

					Ana	ılysis Date: <u>5-4</u>	'-11
Solution IDs:	Cn Cal 1-	050311-1	Cn Ca) 2	<u>050311-1</u>	Cn Cal 3	050311-1	MOCHANIS PROPERTY CONTRACTOR OF THE PROPERTY O
	Cn Cal 4	050311-1	CN Cal 5	050311-1	CN Cal 60	050311-1	•
	On Cal 7	050311-1	Cn LFBC	50311-1	Cn ICVO^	12611-1	
	Cn NaOH-	042611-1	Cn MgCl	013111-1	CN Acid-C	s 41811-1	
	Cn ChlorT	-050411-1	°Cn PyrBar-	0.49911-1	Cn PhosC	7/2611-1	MARINE MA
Items in Data F	ackage:	Excel Spreadsheet Auto sampler Table		Calibration Cu	rve /		
	Copies of:	Reagent Prep Log ICV Prep Log Cyanide Distillation	Logbook _		oln. Prep Log _ Std. Prep Log Excel Spread	dsheet/	
			Quality Con	trol Failures			
Sumple Type LPO RPD	Cup#AU	Sumple Type	Сир #	Sample Type	Cup#	Sumple Type	Cup #
Resar Cuy	05 + 4	- 11-17(Acc)	Notes and	Comments	(10:30		
>orUE	· · · · · · · · · · · · · · · · · · ·			·	100	= 0.20	<u>6</u>
					·		.
itials of Analyst	Reviewing	and Submitting Data		ALW			жи жи жи от то при

Date Reviewed and Submitted:

Date Reviewed and Reported:

Initials of Analyst Performing Second Level Review:

ED_005024_00000667-00168

Cargill Iv John G. (DNREC)

From: Sent:

Ex. 4 CBI Datlanticcoastlabs.com
Thursday, June 02, 2011 9:51 AM
Cargill Iv John G. (DNREC)
cyanide data.pdf

To: Subject: Attachments:

cyanide data.pdf

<<...>>

Hello John, the QC check was ok for the cyanide hit. Data requested is in the attachment.